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1972

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Water Resources Data for Arkansas

Water Year 1971

Part 2. Water Quality Records

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UNITED STATES
DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AR-71-2

Prepared in cooperation with the Arkansas Geological
Commission and with other State and Federal agencies

220

CALENDAR FOR WATER YEAR 1971

OCTOBER 1970

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

NOVEMBER 1970

S	M	T	W	T	F	S
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29	30					

DECEMBER 1970

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JANUARY 1971

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24	25	26	27	28	29	30
31						

FEBRUARY 1971

S	M	T	W	T	F	S
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28						

MARCH 1971

S	M	T	W	T	F	S
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21	22	23	24	25	26	27
28	29	30	31			

APRIL 1971

S	M	T	W	T	F	S
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

MAY 1971

S	M	T	W	T	F	S
						1
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9	10	11	12	13	14	15
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23	24	25	26	27	28	29
30	31					

JUNE 1971

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

JULY 1971

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST 1971

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

SEPTEMBER 1971

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

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Water resources data for the 1971 water year for Arkansas consist of records of discharge and water quality of streams, and water quality of lakes and reservoirs. This report contains water quality for 116 gaging stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Arkansas.

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Water Resources Data for Arkansas

Water Year 1971

Part 2. Water Quality Records

UNITED STATES
DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AR-71-2

Prepared in cooperation with the Arkansas Geological
Commission and with other State and Federal agencies

Prepared in Cooperation with

Arkansas Geological Commission
Water Quality Office, Environmental Protection Agency
Forest Service, U.S. Department of Agriculture
Corps of Engineers, U.S. Army

Water resources records, 1971, for Arkansas are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Arkansas
   Part 1. Surface Water Records
2. Water Resources Data for Arkansas
   Part 2. Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
2301 Federal Office Building
Little Rock, Arkansas 72201

1973

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[Letters after station name designate type of data:
(c), chemical; (b), biological; (t), water
temperature; (s), sediment]

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WATER RESOURCES DATA FOR ARKANSAS, 1971

Part 2. Water Quality Records

INTRODUCTION

Water Resources Data for Arkansas, 1971, Part 2, contains information on the chemical, biological, and physical characteristics of surface water in Arkansas. Pertinent water-quality data of streams in bordering states are also included. These data were collected in Arkansas by the Water Resources Division of the U.S. Geological Survey under the direction of R. T. Sniegocki, district chief, and by cooperating State and Federal agencies, as part of the National Water Data System.

The Geological Survey has published records of chemical quality, suspended sediment, and water temperatures since 1941 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records also have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. The records will be published later in Geological Survey water-supply papers.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreement with the Arkansas Geological Commission, Norman F. Williams, state geologist.

Agencies furnishing assistance were:

Forest Service, U.S. Department of Agriculture
Water Quality Office, Environmental Protection Agency
Corps of Engineers, U.S. Army

Agencies furnishing additional records were:

Corps of Engineers, U.S. Army
Arkansas Game and Fish Commission
Arkansas Department of Pollution Control and Ecology

DEFINITION OF TERMS

Terms related to water-quality and hydrologic data, as used in this report, are defined as follows:

Acre-foot (ac-ft, AC-FT) is a quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 gallons.

Bed material is the shifting part of fragmented alluvial material of which the streambed is composed.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

CFS-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.983471 acre-feet, or 646,317 gallons.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds present in a water and will vary with water compositions, concentration of reagent, temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate or delayed-incubation membrane-filter method.

Cubic foot per second (cfs, CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

> Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.
>
> Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

Drainage area of a stream at a specified location is that area, measured in horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river upstream from the specified point.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with the discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per liter (ug/l, UG/L) is a precise unit for expressing the concentration of chemical constituents in solution. One thousand micrograms per liter is equivalent to 1 milligram per liter. See below.

Milligrams per liter (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one-thousandth of a gram-equivalent weight of a constituent) per liter by miltiplying by the factors in table 1, page 4. Concentration of suspended sediment also is expressed in milligrams per liter, and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations are determined in the laboratory as parts per million and are converted to milligrams per liter by using the factors in table 2, page 4.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter

Ion	Milti-ply by	Ion	Multi-ply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1})......	0.00788
Ammonia as NH_4^{+1})..	.05544	Iron (Fe^{+3})*......	.05372
Barium (Ba^{+2})......	.01456	Lead (Pb^{+2})*......	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1})*....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*......	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in parts per million to milligrams per liter*
[All values calculated to three significant figures]

Range of concentration (ppm)	Multi-ply by	Range of concentration (ppm)	Multi-ply by
0 - 15,900	1.00	322,000 - 341,000	1.26
16,000 - 46,800	1.02	342,000 - 361,000	1.28
46,900 - 76,500	1.04	362,000 - 380,000	1.30
76,600 - 105,000	1.06	381,000 - 399,000	1.32
106,000 - 133,000	1.08	400,000 - 416,000	1.34
134,000 - 159,000	1.10	417,000 - 434,000	1.36
160,000 - 185,000	1.12	435,000 - 451,000	1.38
186,000 - 210,000	1.14	452,000 - 467,000	1.40
211,000 - 233,000	1.16	468,000 - 483,000	1.42
234,000 - 256,000	1.18	484,000 - 498,000	1.44
257,000 - 279,000	1.20	499,000 - 514,000	1.46
280,000 - 300,000	1.22	515,000 - 528,000	1.48
301,000 - 321,000	1.24	529,000 - 542,000	1.50

*Based on water density of 1.000 g/ml and sediment density of 2.65 g/cc.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically during a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by sieve, sedimentation (fall diameter), or optical methods.

Particle-size classification, used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Clay: Smaller than 0.004 mm.
Silt: Between 0.004 and 0.062 mm.
Sand: Between 0.062 and 2.0 mm.
Gravel: Between 2.0 and 64.0 mm.

The particle-size distributions given in this report are not necessarily representative of the particle sizes of sediment in transport in the natural stream. Most of the organic matter is removed and the sample is subjected to mechanical and chemical dispersion before analysis of the silt and clay.

Plankton is the floating (or weakly swimming) animal or plantlife in a body of water consisting chiefly of minute plants (as diatoms and blue-green algae) and of minute animals (as protozoan, entomostracans, and various larvae).

Sediment is solid material that originates mostly from disintergrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge by suspended-sediment concentration (mg/l), and by 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour period.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in mg/l) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may differ in the same stream, as the composition of the water changes.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the use of a thermograph or a digital mechanism that automatically records water temperature on paper tape.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of the water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day of the water year.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of the water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

Irrigation network stations are water-quality stations located at or near certain streamflow gaging stations west of the main stem of the Mississippi River. Data collected at these stations are used to evaluate the chemical quality of surface waters used for irrigation and the changes resulting from the drainage of irrigated lands. Prior to water year 1966, the data for these stations were published in the annual water-supply paper series "Quality of Surface Water for Irrigation, Western States."

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering upstream from all main-stream stations are listed before the first main stream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each water-quality station, gaging station, and partial-record station has been assigned a station number on a national downstream order, except for some open bodies of water where station numbers consist of latitude and longitude. In assigning station numbers, no distinction is made between partial-record and continuous-record stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Water-quality stations at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete number for each station is made up of 8 digits (07360000). The first digits constitute the part number (07). The identification number for each station in this report appears just to the left of the station name. The records are listed in downstream order by parts. All records for a drainage basin containing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

COLLECTION AND EXAMINATION OF DATA

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in Arkansas have been released in the report "Water Resources Data for Arkansas, 1971, Part 1. Surface Water Records."

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow-gaging stations.

Data on the quality of surface water were collected from designated sampling sites (map on p. 15) at predetermined intervals such as once daily, weekly, monthly or less frequently; whereas, at some sites it was necessary to continuously record data on a punched paper tape at 15-, 30-, or 60-minute intervals.

Water-quality information is presented for chemical quality, biological, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnishes information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter and water temperatures are given in degrees Celsius (centigrade, °C). In waters with a density of 1,000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1,000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. (See table 2 on page 4.) To convert temperature in degrees Fahrenheit to degrees Celsius, see table 3, below.

Table 3.--Temperature conversion table at 0.5°C intervals, degrees Fahrenheit (°F) to degrees Celsius (°C)*
(Temperature reported to nearest 0.5°C)

°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
32	0.0	50	10.0	68	20.0	86	30.0	104	40.0
33	.5	51	10.5	69	20.5	87	30.5	105	40.5
34	1.0	52	11.0	70	21.0	88	31.0	106	41.0
35	1.5	53	11.5	71	21.5	89	31.5	107	41.5
36	2.0	54	12.0	72	22.0	90	32.0	108	42.0
37	3.0	55	13.0	73	23.0	91	33.0	109	43.0
38	3.5	56	13.5	74	23.5	92	33.5	110	43.5
39	4.0	57	14.0	75	24.0	93	34.0	111	44.0
40	4.5	58	14.5	76	24.5	94	34.5	112	44.5
41	5.0	59	15.0	77	25.0	95	35.0	113	45.0
42	5.5	60	15.5	78	25.5	96	35.5	114	45.5
43	6.0	61	16.0	79	26.0	97	36.0	115	46.0
44	6.5	62	16.5	80	26.5	98	36.5	116	46.5
45	7.0	63	17.0	81	27.0	99	37.0	117	47.0
46	8.0	64	18.0	82	28.0	100	38.0	118	48.0
47	8.5	65	18.5	83	28.5	101	38.5	119	48.5
48	9.0	66	19.0	84	29.0	102	39.0	120	49.0
49	9.5	67	19.5	85	29.5	103	39.5	121	49.5

*°C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

NOTE.--Since Fahrenheits have always been reported to whole numbers, the ½°F is not shown.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. (See "Definition of Terms," p. 3.)

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and the mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken about the same time each day that the sample is collected. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-head discharges.

At stations equipped with continuous recording thermographs, the records consist of the maximum and minimum temperatures for each day and the monthly averages.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section or a single sample may be obtained at a fixed point and a coefficient applied to compute the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment-discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily loads of suspended sediment were estimated by using water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

WATER-SUPPLY PAPERS

Table 4 shows the annual series of water-supply papers that give information on quality of surface waters in Arkansas. Data for the lower Mississippi River basin are given in Part 7; and for the western Gulf of Mexico basin in Part 8.

Table 4.--Water-supply paper numbers and parts, water years 1946-70

Year	Parts 7-8	Year	Parts 7-8	Part 7
1946	A1050	1959	1644	--
1947	A1102	1960	1744	--
1948	B1133	1961	1884	--
1949	B1163	1962	1944	--
1950	1188	1963	1950	--
1951	1199	1964	1957	--
1952	1252	1965	1964	--
1953	1292	1966	1994	--
1954	1352	1967	2014	--
1955	1402	1968	--	C2096
1956	1452	1969	--	C2146
1957	1522	1970	--	C2156
1958	1573			

A Includes Parts 1-14.
B Includes Parts 7-14.
C In preparation.

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______1941, Methods of analyzing sediment samples: Rept. 4.

______1953, Accuracy of sediment size analyses made by the bottom-withdrawal-tube method: Rept. 10.

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______1957, Some fundamentals of particle size analysis: Rept. 12.

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______1961, The single stage sampler for suspended sediment: Rept. 13.

______1963, Determinations of fluvial sediment discharge: Rept. 14.

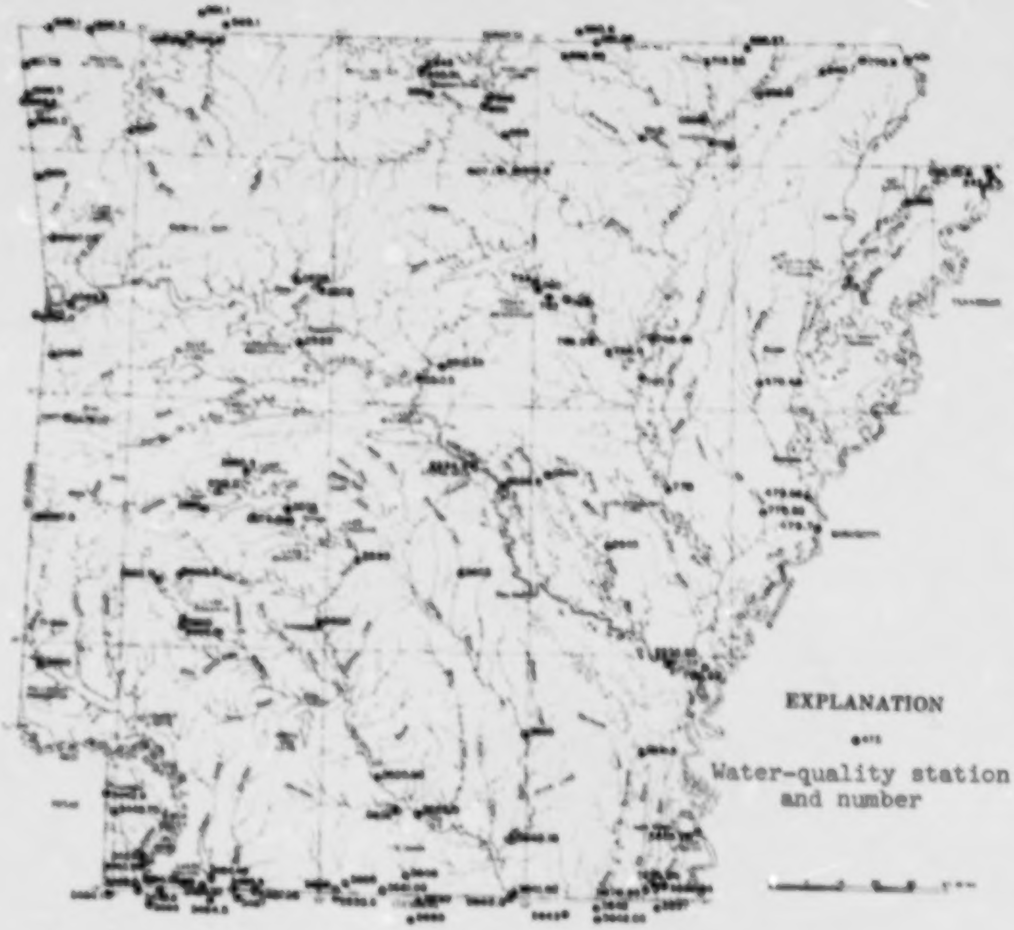
EXPLANATION
Water-quality station and number

Figure 1.--Locations of active water-quality stations, 1971.

WATER-QUALITY RECORDS

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07024250 MISSISSIPPI RIVER AT HUFFMAN, ARK.

LOCATION.--Lat 35°58'25", long 89°43'31", in SE¼SE¼SW¼ sec.29, T.16 N., R.13 E., Mississippi County, at the Grain Company loading platform, 0.5 mile east of State Highway 137 at Huffman, 2.1 miles northeast of Hickman, and 6.5 miles upstream from Obion River.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 12, 1970	20.	-	-	-	-	-	20.5	-	-	-
OCT. 27......	17.	-	-	-	-	-	21.0	-	-	-
NOV. 23......	7.	-	-	-	-	-	23.0	-	-	-
DEC. 7......	7.	190.	50.0	43.2	20.70	68.0	19.5	2.02	0.640	363.
DEC. 28......	5.	-	-	-	-	-	22.0	-	-	-
JAN. 4, 1971	4.	-	-	-	-	-	18.5	-	-	-
JAN. 19......	2.	-	-	-	-	-	18.5	-	-	-
FEB. 2......	2.	400.	420.0	37.6	13.80	38.5	18.0	0.51	0.800	311.
FEB. 16......	4.	-	-	-	-	-	17.5	-	-	-
MAR. 2......	6.	-	-	-	-	-	15.5	-	-	-
MAR. 17......	8.	-	-	-	-	-	16.0	-	-	-
APR. 5......	9.	-	-	-	-	-	21.5	-	-	-
APR. 21......	16.	-	-	-	-	-	17.0	-	-	-
MAY 17......	19.	-	-	-	-	-	19.0	-	-	-
JUNE 2......	21.	-	-	-	-	-	14.0	-	-	-
JUNE 16......	20.	-	-	-	-	-	16.0	-	-	-
JULY 22......	28.	-	-	-	-	-	23.5	-	-	-
AUG. 2......	29.	-	-	-	-	-	15.0	-	-	-
AUG. 16......	29.	-	-	-	-	-	17.0	-	-	-
AUG. 31......	27.	-	-	-	-	-	18.0	-	-	-
SEP. 15......	28.	-	-	-	-	-	33.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 12, 1970	-	-	127.	304.	7.50	-	75.	1.2	7.9
OCT. 27......	-	-	132.	351.	8.00	-	80.	-	9.0
NOV. 23......	-	-	110.	273.	8.00	-	150.	2.2	11.1
DEC. 7......	193.	108.0	115.	364.	8.00	5.	60.	2.8	11.0
DEC. 28......	-	-	89.	304.	7.60	-	200.	4.1	11.2
JAN. 4, 1971	-	-	88.	221.	7.80	-	100.	3.2	11.3
JAN. 19......	-	-	96.	258.	7.70	-	145.	2.7	12.2
FEB. 2......	151.	94.0	100.	260.	7.10	20.	75.	2.5	13.0
FEB. 16......	-	-	77.	249.	6.60	-	190.	4.0	12.6
MAR. 2......	-	-	100.	223.	7.50	-	95.	2.3	11.0
MAR. 17......	-	-	86.	277.	7.80	-	75.	2.5	10.5
APR. 5......	-	-	118.	373.	8.30	-	120.	2.2	10.2
APR. 21......	-	-	121.	385.	7.70	-	80.	3.0	8.3
MAY 17......	-	-	89.	279.	7.70	-	250.	4.6	7.6
JUNE 2......	-	-	113.	370.	7.60	-	240.	1.3	7.4
JUNE 16......	-	-	120.	439.	7.80	-	110.	1.8	7.1
JULY 22......	-	-	120.	416.	8.00	-	160.	1.2	6.6
AUG. 2......	-	-	120.	426.	8.00	-	55.	3.2	8.2
AUG. 16......	-	-	110.	392.	8.10	-	40.	5.3	8.5
AUG. 31......	-	-	102.	373.	7.40	-	40.	2.7	9.0
SEP. 15......	-	-	120.	405.	8.20	-	90.	3.5	8.3

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
DEC. 7, 1970	1900.	150.	50.
FEB. 2, 1971	900.	210.	70.
AUG. 2......	37000.	2300.	27.

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, ARK.

LOCATION.--Lat 36°27'20", long 90°08'13", Clay County, at gaging station at bridge on U.S. Highway 62 at St. Francis.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

REMARKS.--Discharge obtained from rating curves furnished by Corps of Engineers, Memphis, Tenn. Additional records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
NOV. 17...	1040	5.4	30	40	20	10	3.5	2.5	100	0	12	2.7
JAN. 12...	2170	5.5	0	60	17	9.0	3.6	1.7	80	0	14	4.6
MAR. 10...	1540	5.6	30	80	12	6.1	3.6	1.4	56	0	12	3.5
MAY 05...	216	8.0	30	280	28	11	6.0	1.4	140	0	11	4.2
JULY 15...	309	7.6	30	20	25	12	5.4	1.4	130	0	8.0	4.8
SEP. 09...	200	9.7	0	50	26	12	5.3	2.0	140	0	5.2	8.0

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
NOV. 17...	.0	.6	.38	.00	.060	.03	115	323	91	9	82
JAN. 12...	.1	6.2	.58	.15	.060	.04	101	592	80	14	66
MAR. 10...	.2	2.8	.66	.07	.38	.01	86	358	55	9	46
MAY 05...	.3	.1	.15	.00	.18	.03	156	91.0	120	0	115
JULY 15...	.0	.6	.31	.01	.060	.05	138	115	110	0	113
SEP. 09...	.0	.5	.38	.00	.060	.04	133	71.8	110	0	115

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV. 17...	7	.2	210	7.8	2	9.5	13	10.2	89	170	--
JAN. 12...	9	.2	195	7.2	40	2.5	12	12.4	91	70	1600
MAR. 10...	12	.2	140	7.9	100	6.5	18	10.0	81	400	1400
MAY 05...	10	.2	260	7.7	2	16.5	8	7.5	76	60	110
JULY 15...	9	.2	235	7.8	50	25.5	18	6.1	74	380	410
SEP. 09...	9	.2	280	7.9	10	25.0	9	6.5	78	60	175

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, ARK.--Continued

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	18.	-	-	-	-	-	6.0	-	-	-
OCT. 27......	18.	-	-	-	-	-	5.5	-	-	-
NOV. 24......	6.	-	-	-	-	-	6.5	-	-	-
DEC. 7......	7.	0	0	21.6	15.30	10.2	7.5	0	0.190	163.
DEC. 28......	5.	-	-	-	-	-	6.5	-	-	-
JAN. 4, 1971	5.	-	-	-	-	-	5.5	-	-	-
JAN. 19......	2.	-	-	-	-	-	3.5	-	-	-
FEB. 2......	1.	500.	580.0	19.2	9.30	3.0	4.0	0.19	0.270	139.
FEB. 16......	3.	-	-	-	-	-	3.0	-	-	-
MAR. 2......	6.	-	-	-	-	-	4.0	-	-	-
MAR. 17......	13.	-	-	-	-	-	3.5	-	-	-
APR. 5......	9.	-	-	-	-	-	5.5	-	-	-
APR. 21......	19.	-	-	-	-	-	4.5	-	-	-
MAY 17......	23.	-	-	-	-	-	4.0	-	-	-
JUNE 2......	25.	-	-	-	-	-	4.0	-	-	-
JUNE 16......	27.	-	-	-	-	-	6.0	-	-	-
JULY 22......	24.	-	-	-	-	-	6.5	-	-	-
AUG. 2......	2.	-	-	-	-	-	4.5	-	-	-
AUG. 16......	28.	-	-	-	-	-	4.5	-	-	-
AUG. 31......	25.	-	-	-	-	-	6.0	-	-	-
SEP. 15......	24.	-	-	-	-	-	7.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	-	-	92.	179.	6.30	-	120.	1.8	8.5
OCT. 27......	-	-	83.	128.	7.50	-	105.	2.3	8.7
NOV. 24......	-	-	91.	135.	7.90	-	40.	2.5	12.3
DEC. 7......	117.	54.0	93.	175.	7.90	5.	30.	2.3	11.2
DEC. 28......	-	-	97.	183.	7.20	-	30.	3.1	12.5
JAN. 4, 1971	-	-	71.	110.	7.40	-	200.	3.2	11.3
JAN. 19......	-	-	48.	86.	7.00	-	100.	2.8	12.6
FEB. 2......	87.	48.0	71.	128.	6.50	30.	35.	2.0	12.7
FEB. 16......	-	-	62.	118.	6.30	-	150.	3.5	13.2
MAR. 2......	-	-	39.	82.	7.00	-	180.	1.6	10.8
MAR. 17......	-	-	67.	132.	7.60	-	85.	1.3	10.1
APR. 5......	-	-	107.	214.	7.80	-	130.	2.3	10.1
APR. 21......	-	-	94.	193.	7.60	-	45.	2.8	8.7
MAY 17......	-	-	87.	163.	7.80	-	100.	4.7	9.3
JUNE 2......	-	-	103.	191.	7.70	-	130.	4.6	9.2
JUNE 16......	-	-	101.	225.	7.70	-	120.	2.7	7.8
JULY 22......	-	-	119.	250.	8.10	-	45.	2.7	8.0
AUG. 2......	-	-	123.	253.	8.20	-	40.	4.2	10.4
AUG. 16......	-	-	108.	222.	8.00	-	60.	2.0	8.6
AUG. 31......	-	-	281.	531.	7.60	-	80.	3.9	9.7
SEP. 15......	-	-	139.	236.	7.80	-	95.	2.2	6.5

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
DEC. 7, 1970	410.	130.	320.
FEB. 2, 1971	58.	13.	34.
AUG. 2......	300.	170.	67.

07046500 BIG LAKE OUTLET NEAR MANILA, ARK.

LOCATION.--Lat 35°50'59", long 90°07'39", in sec.10, T.14 N., R.9 E., Mississippi County, at Corps of Engineers gaging station at bridge on State Highway 18, 3.5 miles southeast of Manila, and at mile 23.0.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 12, 1970	19.	-	-	-	-	-	16.0	-	-	-
OCT. 27......	19.	-	-	-	-	-	10.0	-	-	-
NOV. 23......	6.	-	-	-	-	-	16.0	-	-	-
DEC. 7......	5.	200.	0	44.8	15.80	14.0	14.5	0	0.460	259.
DEC. 28......	5.	-	-	-	-	-	7.0	-	-	-
JAN. 4, 1971	6.	-	-	-	-	-	12.0	-	-	-
JAN. 19......	2.	-	-	-	-	-	4.5	-	-	-
FEB. 2......	2.	440.	100.0	40.8	11.90	12.7	11.0	0.19	0.530	235.
FEB. 16......	3.	-	-	-	-	-	80.0	-	-	-
MAR. 2......	8.	-	-	-	-	-	4.5	-	-	-
MAR. 17......	13.	-	-	-	-	-	5.0	-	-	-
APR. 5......	13.	-	-	-	-	-	18.0	-	-	-
APR. 21......	22.	-	-	-	-	-	15.0	-	-	-
MAY 17......	23.	-	-	-	-	-	14.0	-	-	-
JUNE 2......	24.	-	-	-	-	-	13.0	-	-	-
JUNE 16......	27.	-	-	-	-	-	11.0	-	-	-
JULY 22......	28.	-	-	-	-	-	21.0	-	-	-
AUG. 2......	25.	-	-	-	-	-	5.0	-	-	-
AUG. 16......	29.	-	-	-	-	-	16.5	-	-	-
AUG. 31......	26.	-	-	-	-	-	8.0	-	-	-
SEP. 15......	24.	-	-	-	-	-	14.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 12, 1970	-	-	150.	297.	7.90	-	120.	3.7	8.2
OCT. 27......	-	-	79.	147.	7.50	-	85.	3.8	6.7
NOV. 23......	-	-	139.	200.	7.90	-	80.	2.2	9.9
DEC. 7......	177.	112.0	146.	290.	7.80	5.	45.	2.5	9.5
DEC. 28......	-	-	40.	101.	6.80	-	180.	2.7	9.2
JAN. 4, 1971	-	-	87.	152.	7.40	-	120.	4.4	10.0
JAN. 19......	-	-	38.	71.	7.00	-	270.	2.1	11.8
FEB. 2......	151.	102.0	133.	259.	7.40	20.	45.	1.4	12.1
FEB. 16......	-	-	88.	179.	6.60	-	300.	2.6	11.9
MAR. 2......	-	-	43.	83.	7.00	-	370.	1.7	9.2
MAR. 17......	-	-	115.	243.	7.70	-	20.	2.5	8.7
APR. 5......	-	-	168.	358.	8.00	-	90.	2.5	9.6
APR. 21......	-	-	170.	370.	7.80	-	110.	6.3L	6.3
MAY 17......	-	-	148.	285.	7.90	-	120.	8.9L	8.9
JUNE 2......	-	-	133.	294.	7.50	-	130.	5.2	5.6
JUNE 16......	-	-	59.	148.	7.10	-	220.	2.7	3.4
JULY 22......	-	-	154.	322.	8.10	-	35.	2.6	6.4
AUG. 2......	-	-	72.	172.	7.30	-	70.	3.3	5.5
AUG. 16......	-	-	121.	287.	7.70	-	50.	1.9	4.8
AUG. 31......	-	-	51.	136.	6.80	-	90.	3.0	4.7
SEP. 15......	-	-	100.	227.	7.20	-	80.	0.9	3.3

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
DEC. 7, 1970	88.	37.	140.
FEB. 2, 1971	50.	4.K	27.
AUG. 2......	2300.	230.	180.

K Less than.
L Greater than.

07046535 PEMISCOT BAYOU NEAR YARBRO, ARK.

LOCATION.--Lat 35°59'30", long 89°52'26", in NE¼SE¼ sec.23, T.16 N., R.11 E., Mississippi County, at bridge on service road 50 ft downstream from Interstate Highway 55, 2.0 miles northeast of Yarbro, and 4.1 miles downstream from Crooked Lake Bayou.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 12, 1970	21.	-	-	-	-	-	10.5	-	-	-
OCT. 27......	19.	-	-	-	-	-	5.0	-	-	-
NOV. 23......	4.	-	-	-	-	-	7.0	-	-	-
DEC. 7......	9.	0	370.0	44.0	45.70	12.7	8.0	0	1.560	461.
DEC. 28......	9.	-	-	-	-	-	7.0	-	-	-
JAN. 4, 1971	6.	-	-	-	-	-	7.5	-	-	-
JAN. 19......	2.	-	-	-	-	-	7.0	-	-	-
FEB. 2......	5.	820.	0	43.2	41.70	5.0	4.0	1.50	0.570	393.
FEB. 16......	8.	-	-	-	-	-	5.0	-	-	-
MAR. 2......	7.	-	-	-	-	-	5.5	-	-	-
MAR. 17......	8.	-	-	-	-	-	5.0	-	-	-
APR. 5......	10.	-	-	-	-	-	11.5	-	-	-
APR. 21......	20.	-	-	-	-	-	5.5	-	-	-
MAY 17......	27.	-	-	-	-	-	4.0	-	-	-
JUNE 2......	28.	-	-	-	-	-	4.0	-	-	-
JUNE 16......	27.	-	-	-	-	-	7.0	-	-	-
JULY 22......	26.	-	-	-	-	-	11.0	-	-	-
AUG. 2......	26.	-	-	-	-	-	6.0	-	-	-
AUG. 16......	29.	-	-	-	-	-	4.5	-	-	-
AUG. 31......	30.	-	-	-	-	-	7.5	-	-	-
SEP. 15......	29.	-	-	-	-	-	9.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 12, 1970	-	-	164.	301.	7.30	-	190.	5.3L	5.3
OCT. 27......	-	-	245.	339.	7.70	-	180.	4.7	6.8
NOV. 23......	-	-	182.	371.	8.00	-	70.	2.7	11.4
DEC. 7......	298.	110.0	317.	476.	7.70	0	80.	1.5	10.7
DEC. 28......	-	-	281.	467.	7.50	-	65.	1.7	8.6
JAN. 4, 1971	-	-	186.	263.	7.60	-	400.	3.9	9.0
JAN. 19......	-	-	348.	448.	7.70	-	40.	1.4	12.5
FEB. 2......	280.	108.0	328.	400.	7.50	5.	35.	1.2	13.3
FEB. 16......	-	-	120.	213.	6.40	-	210.	7.7	9.6
MAR. 2......	-	-	294.	380.	7.70	-	300.	2.4	9.1
MAR. 17......	-	-	304.	500.	7.70	-	120.	7.9L	7.9
APR. 5......	-	-	331.	585.	7.80	-	30.	2.7	11.1
APR. 21......	-	-	419.	556.	7.50	-	90.	2.9	8.0
MAY 17......	-	-	305.	474.	7.80	-	200.	7.7L	7.7
JUNE 2......	-	-	334.	588.	7.70	-	130.	8.9L	8.9
JUNE 16......	-	-	315.	625.	7.60	-	140.	1.0	7.9
JULY 22......	-	-	307.	588.	7.90	-	35.	9.2	9.6
AUG. 2......	-	-	305.	556.	8.10	-	60.	3.1	8.7
AUG. 16......	-	-	319.	629.	8.00	-	75.	8.6L	8.8
AUG. 31......	-	-	104.	215.	7.40	-	70.	10.2L	10.2
SEP. 15......	-	-	323.	546.	7.80	-	80.	2.3	8.2

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
DEC. 7, 1970	130.	50.	82.
FEB. 2, 1971	5.K	4.K	7.
AUG. 2......	1500.	270.	100.

K Less than.
L Greater than.

07047500 ST. FRANCIS RIVER AT MARKED TREE, ARK.

LOCATION (revised).--Lat 35°31'20", long 90°25'27", in SE¼NW¼ sec.2, T.11 N., R.6 E., Poinsett County, at gaging station, near left bank on downstream side of bridge on U.S. Highway 63 at Marked Tree, 5.4 miles downstream from Little River, 7.6 miles downstream from dam of Poinsett County Drainage District 7, and at mile 147.0.

DRAINAGE AREA.--5,140 sq mi, includes that of floodway.

PERIOD OF RECORD.--Chemical analyses: October 1945 to September 1946, November 1949 to September 1955, October 1965 to September 1966, October 1967 to September 1971 (1969-71 includes biological).

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV.											
06...	1000	0	90	0	7	3	19	6	14	0	10
DEC.											
10...	1470	--	--	--	--	--	--	--	--	--	--
JAN.											
14...	824	70	210	0	11	0	6	4	9	--	10
FEB.											
18...	1180	--	--	--	--	--	--	--	--	--	--
MAR.											
25...	653	--	--	--	--	--	--	--	--	--	--
APR.											
29...	1370	40	70	1	0	5	3	6	6	1	30
JUNE											
04...	1300	--	--	--	--	--	--	--	--	--	--
JULY											
15...	1050	10	60	0	2	0	3	0	1	0	30
30...	1250	--	--	--	--	--	--	--	--	--	--
AUG.											
12...	1790	--	--	--	--	--	--	--	--	--	--
SEP.											
13...	249	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL MERCURY (HG) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	NITRITE (NO2) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL AMMONIA ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
NOV.												
06...	<.5	208	0	1.8	6.7	.04	.3	.37	.14	190	15	170
DEC.												
10...	<.5	240	0	8.4	8.5	.00	.4	.06	.13	210	17	197
JAN.												
14...	--	268	0	26	8.7	.04	1.2	.30	.34	230	12	220
FEB.												
18...	--	156	0	10	2.9	--	4.0	.75	.05	130	6	128
MAR.												
25...	--	276	0	26	5.2	.07	.0	.31	.090	210	0	226
APR.												
29...	--	246	0	24	10	.00	.4	.13	.15	210	8	202
JUNE												
04...	--	226	0	24	7.8	.05	1.0	.36	.40	190	9	185
JULY												
15...	--	238	0	19	9.1	.00	.0	.31	.10	210	22	195
30...	--	200	0	28	8.4	.04	.4	.45	.21	190	24	164
AUG.												
12...	--	140	0	24	17	.12	1.1	.50	.25	120	10	115
SEP.												
13...	--	292	0	27	15	.05	.2	.30	.11	260	16	239

DATE	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TUR-BID-ITY (MG/L)
NOV.										
06...	369	7.6	3	24	11	2.0	2500	800	100	25
DEC.										
10...	414	8.0	10	22	11	2.0	E700	E800	140	300
JAN.										
14...	457	8.0	50	52	9	2.0	7400	E6000	--	30
FEB.										
18...	293	7.6	9	222	20	2.0	15000	560	400	400
MAR.										
25...	472	8.1	20	39	11	3.0	540	420	E40	1
APR.										
29...	491	8.1	3	129	8	2.0	--	--	--	75
JUNE										
04...	405	8.1	6	96	9	2.6	E8200	840	400	30
JULY										
15...	420	7.9	7	116	10	3.1	2100	280	300	100
30...	355	8.0	10	91	32	--	2800	--	--	40
AUG.										
12...	270	7.5	80	97	49	9.0	--	--	--	60
SEP.										
13...	514	7.6	15	86	6	4.0	7800	350	540	116

< Less than.
E Estimated.

07047500 ST. FRANCIS RIVER AT MARKED TREE, ARK.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
NOV.					
06...	8.0	390	7.7	10.6	89
DEC.					
10...	9.0	386	7.7	9.9	85
JAN.					
14...	12.0	454	8.0	9.6	88
FEB.					
18...	9.5	292	7.3	9.8	85
MAR.					
25...	10.0	685	8.1	10.5	93
APR.					
29...	20.5	--	7.9	7.8	87
JUNE					
04...	24.5	390	8.1	7.4	88
JULY					
15...	30.0	414	7.6	6.4	84
30...	26.0	--	8.2	6.5	79
AUG.					
12...	26.5	261	7.0	5.4	67
SEP.					
13...	24.0	516	7.6	5.9	69

ANALYSIS OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE									
23...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLORDANE (UG/L)	PARATHION (UG/L)	METHYL PARATHION (UG/L)	MALATHION (UG/L)	DIAZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE								
23...	.00	.00	.00	.00	.00	.00	.00	.01

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
JUNE								
23...	<.20	11	14	8.0	36	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)
JUNE								
23...	<.20	<1.0	<.20	<.20	<.20	<.80	<.30	<.40

< Less than.

07047942 L'ANGUILLE RIVER NEAR COLT, ARK.

LOCATION.--Lat 35°08'40", long 90°52'42", in NE¼NW¼ sec.15, T.6 N., R.2 E., St. Francis County, at gaging station near center of span on downstream side of bridge on State Highway 306, 1.1 miles downstream from Lick Creek, 3.9 miles northwest of Colt, and at mile 194.9.

DRAINAGE AREA.--535 sq mi.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)
NOV.											
06...	741	11	160	80	1	9	5	30	9	10	0
DEC.											
10...	40	--	--	--	--	--	--	--	--	--	--
JAN.											
14...	722	--	50	30	2	9	0	11	7	9	--
FEB.											
18...	1790	--	--	--	--	--	--	--	--	--	--
MAR.											
30...	167	--	--	--	--	--	--	--	--	--	--
APR.											
29...	766	4.6	30	150	2	1	5	8	7	10	0
JUNE											
04...	96	--	--	--	--	--	--	--	--	--	--
JULY											
15...	63	--	20	690	2	19	0	9	1	4	0
AUG.											
12...	1100	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM
NOV.										
06...	7.3	.1	.4	.45	133	266	61	0	62	15
DEC.										
10...	--	--	--	.040	--	--	--	--	--	--
JAN.										
14...	--	--	--	.030	--	--	--	--	--	--
FEB.										
18...	--	--	--	.36	--	--	--	--	--	--
MAR.										
30...	--	--	--	.090	--	--	--	--	--	--
APR.										
29...	3.7	.2	2.2	.30	65	134	32	0	23	20
JUNE										
04...	--	--	--	.21	--	--	--	--	--	--
JULY										
15...	--	--	--	.14	--	--	--	--	--	--
AUG.										
12...	--	--	--	.24	--	--	--	--	--	--

FIELD ANALYSES

DATE	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
NOV.					
06...	11.5	--	7.8	6.1	56
DEC.					
10...	11.0	--	7.7	8.9	81
JAN.					
14...	7.0	125	7.2	9.0	74
FEB.					
18...	8.0	85	7.3	10.1	85
MAR.					
30...	11.0	130	7.6	9.0	81
APR.					
29...	17.0	83	6.9	5.1	52
JUNE					
04...	25.5	314	7.8	6.0	73
JULY					
15...	31.0	386	8.4	5.0	67
AUG.					
12...	26.0	159	--	3.9	48

07047942 L'ANGUILLE RIVER NEAR COLT, ARK.--Continued

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV. 06...	30	--	<.5	15	5.7	5.6	8.2	76	0	7.0
DEC. 10...	--	--	--	--	--	--	--	--	--	--
JAN. 14...	20	0	--	--	--	--	--	--	--	--
FEB. 18...	--	--	--	--	--	--	--	--	--	--
MAR. 30...	--	--	10	--	--	--	--	--	--	--
APR. 29...	20	0	--	8.2	2.7	4.0	3.0	28	0	12
JUNE 04...	--	--	--	--	--	--	--	--	--	--
JULY 15...	20	0	--	--	--	--	--	--	--	--
AUG. 12...	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TUR-BID-ITY (MG/L)
NOV. 06...	.3	168	7.0	1	37	3.0	550	99	--	25
DEC. 10...	--	237	7.2	40	26	1.0	<25	<7	<4	40
JAN. 14...	--	123	7.0	200	30	2.0	490	249	--	110
FEB. 18...	--	76	6.9	280	27	1.0	3500	E20	190	380
MAR. 30...	--	133	7.0	70	34	4.0	2200	1100	160	290
APR. 29...	.3	92	7.0	200	36	3.0	--	--	--	350
JUNE 04...	--	307	7.6	25	20	5.7	E14000	E2300	420	70
JULY 15...	--	306	7.6	10	23	2.7	E2000	E430	600	360
AUG. 12...	--	149	7.0	34	16	2.3	>8000	E520	--	--

ANALYSIS OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE 23...	.00	.02	.02	.01	.02	.00	.00	.00	.00

DATE	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE 23...	.00	.00	.00	.00	.00	.05	.01	.14

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE 23...	<.20	39	21	<.20	<.20	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)
JUNE 23...	<.20	<1.0	<.20	<.20	<.20	<.60	<.20	<.30

> Greater than.
< Less than.
E Estimated.

07047968 ST. FRANCIS RIVER NEAR WEST HELENA, ARK.

LOCATION.--Lat 34°38', long 90°38', sec.1, T.1 S., R.4 E., Phillips County, near right bank at floating dock approximately 6 miles north of West Helena.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 7, 1970	21.	-	-	-	-	-	7.0	-	-	-
OCT. 21......	17.	-	-	-	-	-	6.0	-	-	-
NOV. 4......	15.	-	-	-	-	-	5.5	-	-	-
NOV. 18......	12.	-	-	-	-	-	14.5	-	-	-
DEC. 2......	12.	-	-	-	-	-	11.5	-	-	-
DEC. 15......	11.	0	50.0	30.4	10.00	4.6	6.5	0	0.100	138.
JAN. 12, 1971	3.	-	-	-	-	-	7.0	-	-	-
JAN. 25......	7.	-	-	-	-	-	4.5	-	-	-
FEB. 9......	3.	-	-	-	-	-	6.0	-	-	-
FEB. 24......	8.	-	-	-	-	-	5.5	-	-	-
MAR. 9......	11.	-	-	-	-	-	3.0	-	-	-
MAR. 23......	10.	850.	0	33.6	10.90	10.7	6.0	0.25	0.390	255.
APR. 13......	16.	-	-	-	-	-	7.5	-	-	-
APR. 26......	20.	-	-	-	-	-	5.0	-	-	-
MAY 26......	23.	-	-	-	-	-	5.0	-	-	-
JUNE 22......	29.	1600.	100.0	29.6	10.00	30.0	5.0	0.20	-	342.
JULY 26......	28.	-	-	-	-	-	8.0	-	-	-
AUG. 10......	27.	-	-	-	-	-	11.5	-	-	-
AUG. 25......	28.	-	-	-	-	-	9.0	-	-	-
SEP. 8......	29.	-	-	-	-	-	9.0	-	-	-
SEP. 21......	23.	100.	0	48.0	12.60	12.0	8.0	0	1.400	260.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 7, 1970	-	-	105.	204.	7.30	-	90.	2.4	5.8
OCT. 21......	-	-	83.	171.	7.50	-	90.	1.5	7.2
NOV. 4......	-	-	78.	133.	7.30	-	135.	1.7	7.3
NOV. 18......	-	-	120.	221.	7.60	-	55.	1.7	8.5
DEC. 2......	-	-	135.	270.	7.70	-	50.	3.2	9.0
DEC. 15......	117.	76.0	107.	168.	6.60	5.	25.K	4.3	7.2
JAN. 12, 1971	-	-	86.	194.	7.30	-	200.	2.8	12.4
JAN. 25......	-	-	82.	156.	7.50	-	80.	3.4	10.0
FEB. 9......	-	-	137.	229.	7.80	-	100.	2.3	11.7
FEB. 24......	-	-	66.	136.	7.30	-	350.	2.2	9.5
MAR. 9......	-	-	89.	161.	7.60	-	60.	3.4	11.1
MAR. 23......	129.	84.0	120.	211.	7.70	40.	110.	3.0	10.4
APR. 13......	-	-	165.	314.	7.80	-	60.	2.7	9.7
APR. 26......	-	-	91.	117.	7.30	-	900.	2.5	9.1
MAY 26......	-	-	97.	215.	7.50	-	190.	3.3	9.0
JUNE 22......	115.	74.0	103.	218.	7.50	60.	230.	3.4	5.0
JULY 26......	-	-	-	434.	8.40	-	30.	1.1	7.5
AUG. 10......	-	-	630.	138.	7.50	-	250.	1.8	5.6
AUG. 25......	-	-	156.	366.	7.40	-	55.	3.0	6.0
SEP. 8......	-	-	166.	369.	7.90	-	70.	2.6	7.4
SEP. 21......	172.	120.0	171.	333.	7.80	10.	25.K	1.8	6.6

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
DEC. 15, 1970	12000.	23.	13.
MAR. 23, 1971	820.	30.	35.
JUNE 22......	600.	67.	120.
SEP. 21......	500.	-	560.

K Less than.

07047970 MISSISSIPPI RIVER AT HELENA, ARK.

LOCATION.--Lat 34°31'26", long 90°35'02", Phillips County, at gaging station on right bank at railroad ferry landing at Helena, 10 miles downstream from St. Francis River, and at mile 666.3 (1962 adjustment).

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 7, 1970	21.	-	-	-	-	-	17.0	-	-	-
OCT. 21......	17.	-	-	-	-	-	18.0	-	-	-
NOV. 4......	15.	-	-	-	-	-	21.0	-	-	-
NOV. 18......	13.	-	-	-	-	-	24.5	-	-	-
DEC. 2......	10.	-	-	-	-	-	19.0	-	-	-
DEC. 15......	9.	0	40.0	32.8	13.90	4.8	5.5	0.16	0.340	150.
JAN. 12, 1971	3.	-	-	-	-	-	16.5	-	-	-
JAN. 25......	5.	-	-	-	-	-	4.0	-	-	-
FEB. 9......	2.	-	-	-	-	-	17.5	-	-	-
FEB. 24......	7.	-	-	-	-	-	14.5	-	-	-
MAR. 9......	9.	-	-	-	-	-	3.0	-	-	-
MAR. 23......	8.	1220.	0	38.4	12.80	34.5	15.0	1.50	1.080	520.
APR. 13......	12.	-	-	-	-	-	17.0	-	-	-
APR. 26......	19.	-	-	-	-	-	16.5	-	-	-
MAY 26......	20.	-	-	-	-	-	12.0	-	-	-
JUNE 22......	28.	1400.	130.0	40.8	14.30	1.0K	16.0	0.40	-	706.
JULY 26......	28.	-	-	-	-	-	17.0	-	-	-
AUG. 10......	27.	-	-	-	-	-	23.0	-	-	-
AUG. 25......	28.	-	-	-	-	-	15.0	-	-	-
SEP. 8......	29.	-	-	-	-	-	20.5	-	-	-
SEP. 21......	24.	0	0	44.0	13.70	96.0	20.5	0.40	1.400	291.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 7, 1970	-	-	95.	263.	7.90	-	220.	2.7	6.6
OCT. 21......	-	-	114.	310.	7.90	-	300.	2.4	8.2
NOV. 4......	-	-	116.	303.	7.30	-	200.	2.7	9.3
NOV. 18......	-	-	113.	481.	8.00	-	110.	2.6	9.8
DEC. 2......	-	-	107.	357.	7.90	-	100.	2.5	10.5
DEC. 15......	139.	82.0	125.	192.	7.70	5.	25.K	1.7	10.5
JAN. 12, 1971	-	-	108.	370.	7.20	-	160.	4.1	12.1
JAN. 25......	-	-	93.	179.	7.50	-	35.	2.0	10.3
FEB. 9......	-	-	114.	294.	7.90	-	80.	2.6	12.7
FEB. 24......	-	-	75.	244.	7.40	-	210.	2.1	11.4
MAR. 9......	-	-	94.	173.	7.60	-	30.	2.0	10.6
MAR. 23......	149.	96.0	95.	284.	7.50	40.	280.	2.6	10.3
APR. 13......	-	-	122.	369.	7.90	-	150.	3.1	9.9
APR. 26......	-	-	119.	334.	7.80	-	190.	2.5	7.7
MAY 26......	-	-	84.	285.	7.60	-	240.	4.0	7.2
JUNE 22......	161.	102.0	110.	380.	7.80	25.	500.	2.8	6.6
JULY 26......	-	-	116.	434.	8.10	-	280.	2.4	7.5
AUG. 10......	-	-	980.	364.	8.00	-	160.	1.1	6.2
AUG. 25......	-	-	118.	440.	7.40	-	30.	7.3L	7.3
SEP. 8......	-	-	106.	467.	8.10	-	85.	2.8	7.4
SEP. 21......	166.	110.0	109.	426.	7.90	5.	25.K	2.9	7.3

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
DEC. 15, 1970	420.	36.	23.
MAR. 23, 1971	3900.	1800.	270.
JUNE 22......	23000.	3100.	580.
SEP. 21......	5800.	600.	1600.

K Less than.
L Greater than.

07048700 WHITE RIVER NEAR GOSHEN, ARK.

LOCATION.--Lat 36°06'22", long 94°00'41", in NE¼NW¼ sec.31, T.17 N., R.28 W., Washington County, at bridge on State Highway 45, 0.2 mile upstream from Richland Creek, and 1.2 miles west of Goshen.

DRAINAGE AREA.--408 sq mi.

PERIOD OF RECORD.--Chemical and biological analyses: July 1969 to September 1971.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)
OCT.										
28...	--	--	--	--	--	--	--	--	--	--
NOV.										
25...	--	--	--	--	--	--	--	--	1.0	--
DEC.										
23...	--	--	--	--	--	--	--	--	16	--
JAN.										
20...	--	--	--	--	--	--	--	--	--	--
FEB.										
17...	--	--	--	--	--	--	--	--	--	--
MAR.										
17...	--	--	--	--	--	--	--	--	--	--
APR.										
21...	0	50	<10	2	1	4	3	9	--	11
MAY										
19...	--	--	--	--	--	--	--	--	--	--
JUNE										
23...	--	--	--	--	--	--	--	--	--	--
JULY										
28...	--	--	--	--	--	--	--	--	--	--
SEP.										
01...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPECI-FIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.									
28...	7	26	60	6.9	10	2.0	5400	1600	1000
NOV.									
25...	4	28	92	7.1	6	3.0	--	--	--
DEC.									
23...	9	39	132	7.6	6	2.0	>8000	>1200	--
JAN.									
20...	4	25	79	7.1	1	1.0	E750	E800	E12
FEB.									
17...	6	24	81	7.2	2	1.0	7500	--	E40
MAR.									
17...	11	26	98	7.3	2	1.0	850	--	E2
APR.									
21...	8	33	105	7.5	4	4.0	2700	600	94
MAY									
19...	4	26	82	7.7	4	1.6	1200	E220	E70
JUNE									
23...	14	62	194	7.2	8	5.8	750	290	440
JULY									
28...	20	98	395	7.3	10	4.6	E300	--	450
SEP.									
01...	1	88	303	7.9	13	4.0	E300	E200	220
29...	0	98	314	7.4	15	7.8	E420	E44	400

> Greater than.
< Less than.
E Estimated.

07048700 WHITE RIVER NEAR GOSHEN, ARK.--Continued

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT.									
28...	--	--	32	0	6.2	1.0	.1	.16	33
NOV.									
25...	--	--	36	0	8.0	2.7	2.3	.23	32
DEC.									
23...	--	--	48	0	13	6.0	1.8	.21	40
JAN.									
20...	--	--	30	0	8.0	4.6	.0	.12	29
FEB.									
17...	--	--	28	0	8.2	3.5	.6	.17	30
MAR.									
17...	--	--	32	0	8.2	4.2	.9	.17	37
APR.									
21...	0	20	40	0	13	5.3	2.0	.050	41
MAY									
19...	--	--	32	0	6.0	2.6	1.0	.26	30
JUNE									
23...	--	--	76	0	16	13	0.4	.33	75
JULY									
28...	--	--	120	0	51	38	6.1	1.7	120
SEP.									
01...	--	--	100	0	17	22	7.3	1.8	90
29...	--	--	120	0	22	21	6.7	1.5	100

FIELD ANALYSES

DATE	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.					
28...	13.5	66	7.3	9.9	94
NOV.					
25...	5.0	70	7.7	11.6	91
DEC.					
23...	6.5	116	7.7	9.8	80
JAN.					
20...	3.0	60	7.2	12.6	93
FEB.					
17...	6.5	--	7.4	9.3	76
MAR.					
17...	9.0	71	6.7	10.5	90
APR.					
21...	15.5	95	7.6	8.1	81
MAY					
19...	17.5	82	--	7.7	79
JUNE					
23...	24.0	142	--	4.8	56
JULY					
28...	23.0	360	7.7	3.4	39
SEP.					
01...	22.0	--	7.2	4.8	55
29...	22.0	336	7.2	3.6	41

ANALYSIS OF ADDITIONAL SAMPLES[a]

DATE	DIS-SOLVED OXYGEN (MG/L)	TEMP-ERATURE (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
NOV. 3...	11.3	10.0	90
FEB. 1...	--	5.0	115
APR. 5...	11.0	12.0	125
SEP. 30...	8.3	25.5	290

[a] Records furnished by Corps of Engineers, Little Rock, Ark.

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, ARK.

LOCATION.--Lat 36°25'15", long 93°50'50", in NW¼NW¼ sec.10, T.20 N., R.27 W., Carroll County, at gaging station at dam on White River, 8 miles west of Eureka Springs, and at mile 609.0.

DRAINAGE AREA.--1,186 sq mi (at gaging station).

PERIOD OF RECORD.--Dissolved oxygen, water temperature, and specific conductance: October 1967 to September 1971. Prior to October 1969, published as Beaver Reservoir near Eureka Springs, Ark.

REMARKS.--Records furnished (for log boom location about 1,000 ft upstream from dam) by Corps of Engineers, Little Rock, Ark.

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER 29			JANUARY 7			JANUARY 14		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
5	--	--	--	11.9	8.5	170	10.2	8.0	170
10	--	17.5	155	11.9	8.5	170	10.2	8.0	170
15	--	17.5	155	11.9	8.5	170	10.2	8.0	170
20	--	17.5	155	11.9	8.5	170	10.2	8.0	170
25	--	17.5	158	11.9	8.5	170	10.2	8.0	170
30	--	17.5	158	11.9	8.5	170	10.2	8.0	172
35	--	17.5	158	11.9	8.5	170	10.2	8.0	172
40	--	17.5	160	11.9	8.5	170	10.2	8.0	175
45	--	17.5	160	11.9	8.5	170	10.2	8.0	175
50	--	17.5	160	11.9	8.5	170	10.2	8.0	175
55	--	17.5	160	11.9	8.5	170	10.2	8.0	178
60	--	17.5	160	11.9	8.5	170	10.2	8.0	178
65	--	17.5	160	11.9	8.5	170	10.2	8.0	178
70	--	13.0	180	11.9	8.5	170	10.2	8.0	180
75	--	13.0	180	11.9	8.5	170	10.2	8.0	180
80	--	12.5	170	11.9	8.5	170	10.2	8.0	182
85	--	12.0	170	11.6	8.5	170	10.2	8.0	182
90	--	11.0	170	11.4	8.5	170	10.2	8.0	182
95	--	10.0	170	11.4	8.5	170	10.2	8.0	182
100	--	9.5	172	11.4	8.5	170	10.2	7.9	182
105	--	9.5	172	11.4	8.5	170	10.2	7.9	182
110	--	9.5	175	11.4	8.5	170	10.2	7.9	182
115	--	9.0	175	11.4	8.5	170	10.5	7.8	182
120	--	9.0	175	11.4	8.5	170	10.5	7.7	182
125	--	9.0	175	11.4	8.5	170	10.5	7.6	182
130	--	8.5	175	10.0	8.5	170	10.5	7.5	182
135	--	8.0	175	10.0	8.5	170	10.5	7.5	182
140	--	7.0	180	9.5	8.5	170	10.5	7.5	182
145	--	7.0	180	8.1	8.5	170	10.5	7.5	182
150	--	7.0	180	.8	8.5	180	10.5	7.5	182
155	--	7.0	180	.8	8.5	180	10.8	7.4	182
160	--	7.0	180	.6	8.0	190	10.5	7.3	182
165	--	7.0	180	.6	8.0	190	10.5	7.2	182
170	--	7.0	180	.6	8.0	190	10.5	7.2	182
175	--	7.0	180	.8	8.0	190	10.5	7.2	182
180	--	7.0	180	1.1	8.0	190	10.5	7.2	182

	JANUARY 19			FEBRUARY 1			FEBRUARY 10		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
5	8.6	7.5	170	--	7.0	165	12.1	6.0	165
10	8.6	7.5	170	--	7.0	165	12.1	6.0	165
15	8.6	7.5	170	--	7.0	165	12.1	6.0	165
20	8.6	7.5	170	--	7.0	165	12.1	6.0	165
25	8.6	7.5	170	--	7.0	165	12.1	6.0	165
30	8.6	7.5	172	--	7.0	165	11.8	6.0	165
35	8.6	7.5	172	--	7.0	165	11.8	6.0	165
40	8.6	7.5	172	--	7.0	165	11.8	6.0	165
45	8.6	7.5	172	--	7.0	165	11.5	6.0	165
50	8.6	7.5	172	--	7.0	165	11.5	6.0	165
55	8.6	7.5	172	--	7.0	170	11.5	6.0	165
60	8.6	7.5	172	--	7.0	170	11.5	6.0	165
65	8.6	7.5	172	--	7.0	170	11.5	6.0	165
70	8.6	7.5	175	--	7.0	170	11.5	6.0	165
75	8.6	7.5	175	--	7.0	170	11.5	6.0	165
80	8.6	7.5	175	--	7.0	170	11.5	6.0	165
85	8.6	7.5	175	--	7.0	170	11.5	6.0	165
90	8.6	7.5	175	--	7.0	170	11.5	6.0	165
95	8.6	7.5	175	--	7.0	170	11.5	6.0	165
100	8.6	7.5	175	--	7.0	175	11.5	6.0	165
105	8.6	7.5	175	--	7.0	175	11.5	6.0	165
110	8.6	7.5	175	--	7.0	175	11.5	6.0	165
115	8.6	7.5	175	--	7.0	175	11.5	6.0	165
120	8.6	7.5	175	--	7.0	175	11.5	6.0	165
125	8.6	7.5	175	--	7.0	175	11.5	6.0	165
130	8.6	7.5	180	--	7.0	175	11.5	6.0	165
135	8.6	7.5	180	--	7.0	175	11.5	6.0	165
140	8.6	7.5	180	--	7.0	175	11.5	6.0	165
145	8.6	7.5	180	--	7.0	175	11.5	6.0	165
150	8.6	7.5	180	--	7.0	175	11.5	6.0	165
155	8.6	7.5	180	--	7.0	175	11.5	6.0	165
160	8.6	7.5	180	--	7.0	175	11.5	6.0	165
165	8.6	7.5	180	--	7.0	175	11.5	6.0	165
170	9.6	7.0	182	--	7.0	175	11.5	6.0	165
175	9.6	7.0	182	--	7.0	175	11.5	6.0	165
180	9.6	7.0	182	--	7.0	175	11.5	6.0	165

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, ARK.--Continued

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY 23			MARCH 5			MARCH 25		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
5	12.1	6.0	162	11.8	6.3	165	11.4	7.4	162
10	12.1	6.0	162	11.8	6.3	165	11.4	7.4	162
15	12.1	6.0	162	11.8	6.3	165	11.9	7.4	162
20	12.1	6.0	162	11.8	6.3	165	11.9	7.3	162
25	12.1	6.0	162	11.8	6.3	165	11.9	7.3	166
30	12.1	6.0	162	11.8	6.3	165	11.9	7.3	166
35	11.8	6.0	164	12.1	6.2	165	12.3	7.3	166
40	11.8	6.0	164	12.1	6.2	170	12.3	7.3	166
45	11.8	6.0	166	12.1	6.2	170	12.3	7.3	166
50	11.8	6.0	166	12.1	6.2	170	12.3	7.3	166
55	11.8	6.0	168	12.1	6.2	170	12.3	7.3	166
60	11.8	6.0	168	12.1	6.2	170	12.3	7.3	168
65	11.8	6.0	168	12.1	6.2	170	12.3	7.3	168
70	11.8	6.0	168	12.1	6.2	170	12.7	7.3	168
75	11.8	6.0	168	12.1	6.2	170	12.7	7.3	168
80	11.8	6.0	170	12.1	6.2	172	12.7	7.3	168
85	11.8	6.0	170	12.1	6.2	172	12.7	7.3	168
90	11.8	6.0	170	12.1	6.2	172	12.7	7.3	168
95	11.8	6.0	170	12.1	6.2	172	13.2	7.2	168
100	11.8	6.0	170	12.1	6.2	172	13.2	7.1	170
105	11.8	6.0	170	12.1	6.1	172	13.2	7.0	170
110	11.8	6.0	172	12.1	6.0	172	13.2	6.9	170
115	11.8	6.0	172	12.1	6.0	175	13.2	6.8	170
120	11.8	6.0	172	12.1	6.0	175	13.2	6.7	170
125	11.8	6.0	172	12.1	6.0	175	13.2	6.6	170
130	11.8	6.0	175	12.1	6.0	175	13.8	6.5	170
135	11.8	6.0	175	12.1	6.0	175	13.8	6.5	170
140	11.8	5.9	175	12.1	6.0	175	13.8	6.5	172
145	12.1	5.8	175	12.1	6.0	175	13.8	6.5	172
150	12.1	5.8	175	12.1	6.0	175	13.8	6.4	172
155	12.1	5.8	175	12.1	6.0	175	13.8	6.4	172
160	12.1	5.8	175	12.1	6.0	175	13.8	6.4	172
165	12.1	5.8	175	12.1	6.0	175	13.8	6.4	172
170	12.1	5.8	175	12.1	6.0	175	13.8	6.4	172
175	12.1	5.8	175	12.1	6.0	175	13.8	6.4	172
180	12.1	5.8	175	12.1	6.0	175	13.8	6.4	172

	APRIL 7			APRIL 19			APRIL 30		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
5	11.6	9.0	170	11.1	13.5	160	10.4	15.0	160
10	12.2	8.0	170	11.3	13.0	160	10.0	15.0	160
15	12.2	8.0	170	11.3	13.0	160	10.4	13.0	160
20	12.2	8.0	170	11.1	12.5	165	10.2	12.5	165
25	12.2	8.0	170	10.2	12.0	165	10.2	12.0	165
30	12.2	8.0	170	10.0	10.5	170	10.5	11.0	165
35	12.2	8.0	170	10.4	10.0	170	10.5	10.0	165
40	12.2	8.0	170	10.7	9.5	170	10.8	9.5	170
45	11.7	8.0	170	10.7	9.0	170	10.5	9.0	170
50	11.7	8.0	170	10.7	9.0	170	10.5	9.0	170
55	11.1	8.0	170	10.7	9.0	170	10.6	8.0	170
60	11.1	8.0	170	10.5	8.5	170	10.6	8.0	170
65	11.4	7.5	175	10.5	8.5	170	10.6	8.0	170
70	11.4	7.5	175	10.0	8.5	170	10.3	8.0	170
75	11.4	7.5	175	10.2	8.0	170	10.3	8.0	170
80	11.4	7.5	175	9.8	8.0	170	10.3	8.0	170
85	11.4	7.5	175	9.8	8.0	170	10.9	7.0	175
90	12.1	7.0	175	9.0	7.5	170	10.3	7.0	175
95	12.1	7.0	175	9.0	7.5	170	10.3	7.0	175
100	11.5	7.0	175	10.0	7.0	170	10.3	7.0	175
105	11.2	7.0	175	10.0	7.0	170	9.7	7.0	175
110	11.2	7.0	175	9.7	7.0	170	9.7	7.0	175
115	11.2	7.0	175	9.7	7.0	170	10.0	6.5	175
120	11.2	7.0	175	9.5	7.0	170	10.0	6.5	175
125	11.6	6.0	173	9.5	7.0	170	10.0	6.5	175
130	11.3	6.0	173	9.5	7.0	170	10.0	6.5	175
135	11.0	6.0	173	9.5	7.0	170	10.0	6.5	175
140	10.6	6.0	173	9.5	7.0	170	10.0	6.5	175
145	10.6	6.0	173	9.7	6.5	170	10.0	6.0	175
150	10.6	6.0	173	9.2	6.5	175	9.7	6.0	180
155	10.6	6.0	173	9.2	6.5	175	9.7	6.0	180
160	10.6	6.0	173	9.2	6.5	175	9.7	6.0	180
165	10.6	6.0	173	9.2	6.5	175	9.7	6.0	180
170	10.6	6.0	173	9.2	6.5	175	9.7	6.0	180
175	10.6	6.0	173	9.2	6.5	175	9.7	6.0	180
180	10.6	6.0	173	9.2	6.5	175	9.7	6.0	180

07049690 BEAVER LAKE NEAR EUREKA SPRINGS, ARK.--Continued

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	MAY 21			JUNE 16			AUGUST 24		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
5	9.2	20.0	160	8.1	27.0	150	8.9	21.5	155
10	9.6	19.5	160	8.2	16.5	150	8.7	21.5	155
15	9.8	19.0	160	8.9	25.0	150	8.6	21.5	--
20	9.6	19.0	160	--	--	--	8.6	21.5	155
25	--	--	--	10.2	18.0	165	7.7	21.0	--
30	10.1	16.0	162	--	--	--	6.9	21.0	155
35	--	--	--	8.8	16.0	165	4.4	21.0	--
40	10.0	11.0	175	--	--	--	2.5	15.5	160
45	--	--	--	9.3	10.5	175	2.5	14.0	--
50	9.6	9.0	177	--	--	--	2.9	12.0	160
55	--	--	--	--	--	--	3.2	11.0	--
60	9.4	8.0	177	8.1	9.5	175	3.9	10.0	160
65	--	--	--	--	--	--	4.1	10.0	--
70	8.9	8.0	177	--	--	--	4.4	10.0	--
75	--	--	--	--	--	--	4.4	10.0	--
80	8.5	8.0	177	7.9	8.0	180	4.7	9.0	160
85	--	--	--	--	--	--	4.2	9.0	--
90	--	--	--	--	--	--	4.2	9.0	--
95	--	--	--	--	--	--	4.2	9.0	--
100	8.2	7.0	180	8.0	7.0	182	4.4	8.0	--
130	8.6	6.5	185	--	--	--	--	--	--
140	--	--	--	--	--	--	1.1	7.5	165
150	7.8	6.0	190	6.8	6.5	182	--	--	--
160	--	--	--	--	--	--	--	7.5	170
180	7.3	6.0	190	5.9	6.5	182	--	7.5	183

	SEPTEMBER 1			SEPTEMBER 15		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
5	8.6	23.5	153	9.1	20.7	153
10	8.5	23.5	153	9.0	20.7	153
15	--	--	--	8.9	20.7	153
20	8.0	23.0	153	8.9	20.7	155
25	--	--	--	8.8	20.7	155
30	7.5	22.0	156	8.8	20.6	155
35	--	--	--	8.7	20.6	155
40	6.3	21.0	160	7.8	20.4	155
45	--	--	--	4.1	16.5	158
50	9.2	14.5	165	3.2	14.0	158
55	--	--	--	1.8	12.2	158
60	1.9	11.5	165	2.0	11.5	158
65	--	--	--	2.5	10.8	158
70	2.6	10.0	165	3.1	10.0	158
75	--	--	--	3.5	9.6	158
80	3.3	9.0	168	3.6	9.4	158
85	--	--	--	3.9	9.0	160
90	3.4	8.5	168	4.0	8.8	160
95	--	--	--	3.8	8.6	160
100	3.5	8.0	170	3.6	8.4	162
105	--	--	--	3.2	8.2	162
110	--	--	--	2.8	8.1	162
115	--	--	--	2.3	8.0	163
120	2.4	7.5	170	1.9	7.9	163
125	--	--	--	1.4	7.8	165
130	--	--	--	1.2	7.7	165
135	--	--	--	.2	7.6	168
140	--	--	--	.2	7.6	168
145	--	--	--	.2	7.6	168
150	0.0	7.5	170	.2	7.6	168
155	--	--	--	.2	7.6	170
160	--	--	--	.2	7.6	170
165	--	--	--	.2	7.6	170
170	--	--	--	.5	7.9	175
175	--	--	--	.5	7.9	175
180	0.0	8.0	190	--	--	--

07049691 WHITE RIVER AT BEAVER DAM, NEAR EUREKA SPRINGS, ARK.

LOCATION.--Lat 36°25'15", long 93°50'50", in NW¼NW¼ sec.10, T.20 N., R.27 W., Carroll County, at gaging station at Beaver Dam, 6 miles west of Eureka Springs, and at mile 609.0.

DRAINAGE AREA.--1,186 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1945 to September 1946, October 1949 to September 1953, October 1967 to September 1971.
Water temperatures: October 1945 to September 1946, October 1949 to September 1953, October 1967 to September 1971.

REMARKS.--Flow completely regulated by Beaver Reservoir. Records furnished by Corps of Engineers, Little Rock, Ark.

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JANUARY			FEBRUARY			MARCH		
DAY	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
1	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	11.0	6.0	154
3	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	11.3	6.0	156
5	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--
12	7.6	7.8	162	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--
15	10.8	7.6	154	--	--	--	--	--	--
16	--	--	--	--	--	--	11.0	6.2	151
17	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	12.3	6.2	154
19	10.5	7.4	152	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--
22	11.5	7.2	151	--	--	--	--	--	--
23	--	--	--	11.8	6.0	154	11.9	6.3	154
24	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	11.5	6.3	157
26	10.8	7.2	150	11.7	6.9	156	--	--	--
27	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--
29	10.8	6.9	154	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--

	APRIL			MAY			JUNE		
DAY	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
1	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	9.4	6.7	151
3	--	--	--	--	--	--	--	--	--
4	--	--	--	10.3	6.6	154	--	--	--
5	--	--	--	--	--	--	--	--	--
6	--	--	--	10.8	6.7	154	--	--	--
7	--	--	--	--	--	--	--	--	--
8	10.5	6.8	157	--	--	--	8.9	6.9	151
9	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	8.6	6.9	151
11	--	--	--	10.3	6.6	153	--	--	--
12	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--
14	--	--	--	10.3	6.7	151	--	--	--
15	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	9.1	6.9	150
18	--	--	--	--	--	--	--	--	--
19	--	--	--	10.0	6.7	156	--	--	--
20	--	--	--	--	--	--	--	--	--
21	--	--	--	9.7	6.6	152	--	--	--
22	--	--	--	--	--	--	8.6	6.9	148
23	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	7.6	6.8	154
25	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--
27	10.8	6.7	155	8.9	6.7	153	--	--	--
28	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--
30	10.0	6.5	156	--	--	--	8.2	7.0	149
31	--	--	--	--	--	--	--	--	--

07049691 WHITE RIVER AT BEAVER DAM, NEAR EUREKA SPRINGS, ARK.--Continued

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JULY			AUGUST			SEPTEMBER		
DAY	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
1	--	--	--	--	--	--	--	--	--
2	8.5	7.4	148	--	--	--	--	--	--
3	--	--	--	6.9	7.3	147	3.2	7.2	148
4	--	--	--	--	--	--	--	--	--
5	--	--	--	6.0	7.2	143	--	--	--
6	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	6.1	7.7	148
11	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--
13	--	--	--	6.6	7.2	147	--	--	--
14	7.8	7.1	153	--	--	--	5.5	7.4	148
15	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	6.1	7.8	142
18	--	--	--	7.9	7.3	148	--	--	--
19	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--
21	7.7	7.2	146	--	--	--	5.8	7.6	136
22	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--
26	--	--	--	5.8	7.7	146	--	--	--
27	--	--	--	--	--	--	--	--	--
28	7.5	7.3	148	--	--	--	--	--	--
29	--	--	--	--	--	--	2.3	7.3	149
30	6.4	7.3	148	--	--	--	--	--	--
31	--	--	--	4.6	7.4	145	--	--	--

07050110 WHITE RIVER NEAR GOLDEN, MO.

LOCATION.--Lat 36°31'56", long 93°42'52", in SW¼SW¼ sec.14, T.21 N., R.26 W., Barry County, at bridge on Missouri State Highway 86, 3.9 miles west of Golden.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	16.	40.	20.0	31.2	9.00	3.5	7.5	0	0	118.
OCT. 27......	15.	-	-	-	-	-	5.5	-	-	-
NOV. 9......	10.	-	-	-	-	-	9.0	-	-	-
NOV. 23......	5.	-	-	-	-	-	4.0	-	-	-
NOV. 30......	10.	-	-	-	-	-	4.5	-	-	-
DEC. 21......	9.	-	-	-	-	-	3.0	-	-	-
JAN. 5, 1971	5.	0	0	22.4	3.40	5.5	5.0	0.18	0.010	32.
JAN. 19......	6.	-	-	-	-	-	6.0	-	-	-
FEB. 1.......	6.	-	-	-	-	-	2.5	-	-	-
FEB. 15......	8.	-	-	-	-	-	3.0	-	-	-
MAR. 15......	8.	-	-	-	-	-	3.5	-	-	-
MAR. 29......	8.	-	-	-	-	-	4.0	-	-	-
APR. 20......	17.	-	-	-	-	-	4.5	-	-	-
MAY 4......	16.	-	-	-	-	-	2.0	-	-	-
MAY 17......	15.	-	-	-	-	-	3.0	-	-	-
JUNE 14......	23.	-	-	-	-	-	3.0	-	-	-
JUNE 28......	24.	-	-	-	-	-	3.0	-	-	-
JULY 6......	27.	-	-	-	-	-	2.0	-	-	-
JULY 21......	-	-	-	-	-	-	4.0	-	-	-
AUG. 2......	24.	-	-	-	-	-	1.0	-	-	-
AUG. 16......	25.	-	-	-	-	-	-	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	115.	78.0	106.	150.	7.70	5.	25.K	0.2	7.1
OCT. 27......	-	-	90.	174.	7.00	-	25.K	0	7.8
NOV. 9......	-	-	87.	181.	7.30	-	25.K	0	8.9
NOV. 23......	-	-	77.	121.	7.70	-	25.K	2.0	10.9
NOV. 30......	-	-	60.	139.	7.50	-	25.K	1.0	9.3
DEC. 21......	-	-	63.	122.	7.30	-	25.K	1.0	10.0
JAN. 5......	70.	56.0	62.	113.	6.90	0	25.K	0	9.4
JAN. 19......	-	-	74.	151.	7.70	-	25.K	0.3	10.2
FEB. 1......	-	-	73.	130.	7.30	-	25.K	0.8	10.7
FEB. 15......	-	-	68.	122.	6.80	-	25.K	0.9	11.5
MAR. 15......	-	-	60.	101.	7.90	-	25.K	0.8	11.5
MAR. 29......	-	-	69.	126.	8.10	-	25.K	1.0	11.4
APR. 20......	-	-	70.	153.	8.30	-	25.K	2.1	11.1
MAY 4......	-	-	79.	134.	8.00	-	25.K	0.8	8.7
MAY 17......	-	-	85.	148.	8.30	-	25.K	1.2	10.0
JUNE 14......	-	-	97.	185.	8.50	-	25.K	1.8	9.6
JUNE 28......	-	-	97.	198.	8.70	-	25.K	4.2	12.3
JULY 6......	-	-	100.	200.	8.70	-	25.K	1.9	9.6
JULY 21......	-	-	96.	227.	8.60	-	25.K	0	7.4
AUG. 2......	-	-	94.	179.	8.80	-	25.K	3.8	9.9
AUG. 16......	-	-	91.	170.	8.40	-	25.K	1.4	8.2

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCC8 MF/100ML
OCT. 21, 1970	12.	4.K	7.
JAN. 5, 1971	4.K	4.K	10.

K Less than.

07050510 KINGS RIVER NEAR GOLDEN, MO.

LOCATION.--Lat 36°30'29", long 93°34'51", in NW¼NW¼ sec.25, T.21 N., R.25 W., Barry County, at bridge on Missouri State Highway 86, 3.4 miles southeast of Golden, and 0.3 mile north of the Arkansas-Missouri State line.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	14.	70.	0	44.0	12.40	5.0	6.5	1.10	0.130	190.
OCT. 27......	14.	-	-	-	-	-	3.0	-	-	-
NOV. 9......	11.	-	-	-	-	-	7.5	-	-	-
NOV. 23......	5.	-	-	-	-	-	9.5	-	-	-
NOV. 30......	11.	-	-	-	-	-	5.5	-	-	-
DEC. 21......	9.	-	-	-	-	-	3.5	-	-	-
JAN. 5, 1971	4.	350.	0	32.0	10.00	7.2	5.0	0.70	0.100	104.
JAN. 19......	6.	-	-	-	-	-	3.5	-	-	-
FEB. 1......	5.	-	-	-	-	-	3.5	-	-	-
FEB. 15......	8.	-	-	-	-	-	2.0	-	-	-
MAR. 15......	13.	-	-	-	-	-	3.5	-	-	-
MAR. 29......	8.	-	-	-	-	-	3.5	-	-	-
APR. 20......	17.	-	-	-	-	-	4.5	-	-	-
MAY 4......	17.	-	-	-	-	-	2.5	-	-	-
MAY 17......	15.	-	-	-	-	-	2.0	-	-	-
JUNE 14......	25.	-	-	-	-	-	3.0	-	-	-
JUNE 28......	26.	-	-	-	-	-	4.0	-	-	-
JULY 6......	27.	-	-	-	-	-	4.0	-	-	-
JULY 20......	29.	-	-	-	-	-	3.5	-	-	-
AUG. 2......	25.	-	-	-	-	-	6.0	-	-	-
AUG. 16......	26.	-	-	-	-	-	-	-	-	-
SEP. 27......	18.	-	-	-	-	-	4.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	161.	110.0	142.	239.	7.70	5.	25.K	0.2	8.5
OCT, 27......	-	-	85.	139.	7.10	-	25.K	1.6	8.4
NOV. 9......	-	-	97.	203.	7.30	-	25.K	1.1	9.0
NOV. 23......	-	-	99.	162.	8.00	-	25.K	0.6	10.6
NOV. 30......	-	-	108.	214.	8.00	-	25.K	1.9	9.8
DEC. 21......	-	-	132.	229.	8.00	-	25.K	1.3	11.8
JAN. 5, 1971	121.	80.0	108.	178.	7.60	5.	25.K	-	11.9
JAN. 19......	-	-	96.	185.	7.80	-	25.K	1.8	12.0
FEB. 1......	-	-	126.	215.	7.80	-	25.K	1.1	12.1
FEB. 15......	-	-	95.	167.	7.00	-	25.K	1.7	11.7
MAR. 15......	-	-	103.	152.	8.40	-	25.K	0.5	10.1
MAR. 29......	-	-	117.	204.	8.40	-	25.K	1.4	10.5
APR. 20......	-	-	117.	234.	8.30	-	25.K	1.2	9.0
MAY 4......	-	-	101.	164.	8.20	-	25.K	1.7	8.8
MAY 17......	-	-	97.	148.	8.20	-	25.K	1.2	9.0
JUNE 14......	-	-	28.	83.	7.80	-	25.K	2.7	8.0
JUNE 28......	-	-	138.	270.	8.20	-	25.K	3.0	8.1
JULY 6......	-	-	126.	263.	8.70	-	25.K	1.8	9.5
JULY 20......	-	-	136.	303.	8.30	-	25.K	2.8	8.9
AUG. 2......	-	-	142.	250.	8.60	-	25.K	3.7	10.6
AUG. 16......	-	-	146.	259.	7.80	-	25.K	2.6	7.9
SEP. 27......	-	-	118.	276.	7.60	-	25.K	4.8	7.6

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 13, 1970	4000.	540.	1800.
JAN. 5, 1971	920.	370.	1900.

K Less than.

07054500 BULL SHOALS LAKE NEAR FLIPPIN, ARK.
(Formerly published as Bull Shoals Reservoir near Flippin, Ark.)

LOCATION.--Lat 36°21'56", long 92°34'29", in NW¼ sec.21, T.20 N., R.15 W., Marion County, at dam on White River, 6.3 miles northeast of Flippin, 12.5 miles downstream from Little North Fork, and at mile 418.6.

DRAINAGE AREA.--6,036 sq mi.

PERIOD OF RECORD.--Dissolved oxygen, water temperature, and specific conductance: October 1967 to September 1969, October 1970 to September 1971.

REMARKS.--Records furnished (for log boom location about 1,000 ft upstream from dam) by Corps of Engineers, Little Rock, Ark.

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JANUARY 25			MARCH 17			APRIL 28		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
0	8.5	8.0	290	12.2	8.0	290	12.4	15.5	280
10	8.3	8.0	290	12.2	8.0	290	13.1	14.5	280
20	--	--	--	--	--	--	13.1	14.5	280
30	7.7	8.0	290	12.6	7.5	290	--	--	--
40	--	--	--	--	--	--	12.3	11.0	290
50	7.8	7.5	290	12.6	7.5	290	12.6	9.0	300
70	--	--	--	--	--	--	11.7	8.0	300
80	7.6	7.5	290	12.0	7.5	290	--	--	--
90	--	--	--	--	--	--	12.0	7.5	300
100	--	--	--	12.0	7.5	290	--	--	--
110	7.6	7.5	300	--	--	--	--	--	--
120	--	--	--	--	--	--	11.5	7.0	300
130	--	--	--	12.1	6.5	300	--	--	--
140	7.4	7.5	310	--	--	--	--	--	--
150	--	--	--	--	--	--	11.2	6.5	300
160	--	--	--	9.4	6.0	305	--	--	--
170	7.1	7.0	320	--	--	--	--	--	--
180	--	--	--	11.2	6.0	305	10.6	6.5	300
190	.8	7.0	320	--	--	--	--	--	--

	JUNE 29			JULY 29			SEPTEMBER 13		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
0	9.7	28.5	700	10.2	27.0	--	9.9	27.5	--
10	10.0	28.0	700	10.7	27.0	--	10.0	27.5	--
20	15.1	24.5	750	10.6	27.0	--	10.0	27.5	--
30	15.3	20.0	750	14.2	21.0	--	16.3	24.0	--
40	12.0	16.0	850	12.5	18.0	--	10.6	19.5	--
50	10.9	14.0	900	10.3	15.0	--	6.3	17.5	--
60	10.2	10.5	900	8.8	12.5	--	3.8	15.0	--
70	9.8	9.5	950	--	--	--	3.2	13.5	--
80	--	--	--	8.9	10.0	--	5.0	11.0	--
90	9.7	9.0	950	--	--	--	5.4	10.0	--
100	--	--	--	9.0	9.0	--	--	--	--
110	--	--	--	--	--	--	5.9	8.5	--
120	9.4	7.5	1000	--	--	--	--	--	--
130	--	--	--	8.7	8.0	--	5.6	7.5	--
140	8.9	7.5	1000	--	--	--	--	--	--
150	--	--	--	--	--	--	3.1	7.5	--
160	--	--	--	6.3	7.5	--	--	--	--
180	7.4	7.0	1000	5.4	7.0	--	.9	7.5	--

07054501 WHITE RIVER AT BULL SHOALS DAM, ARK.

LOCATION.--Lat 36°21'56", long 92°34'29", in NW¼ sec.21, T.20 N., R.15 W., Marion County, at dam on White River, 11.9 miles upstream from gaging station, 6.3 miles northeast of Flippin, 12.5 miles downstream from Little North Fork, and at mile 418.6.

PERIOD OF RECORD.--Chemical analyses: July 1954 to September 1964.
Water temperatures: October 1954 to September 1964.
Dissolved oxygen, water temperature, and specific conductance: October 1970 to September 1971.

REMARKS.--Records furnished by Corps of Engineers, Little Rock, Ark.

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JANUARY			FEBRUARY			MARCH		
DAY	DIS- SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS- SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS- SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
1	--	--	--	11.0	7.2	255	--	--	--
2	--	--	--	--	--	--	11.0	6.5	190
3	--	--	--	--	--	--	--	--	--
4	10.0	9.9	200	--	--	--	11.6	6.5	255
5	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--
7	9.8	9.1	250	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--
9	--	--	--	11.0	7.2	255	11.6	6.9	220
10	--	--	--	--	--	--	--	--	--
11	11.2	8.4	245	10.7	7.0	140	--	--	--
12	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--
14	14.4	8.5	245	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--
16	--	--	--	11.4	6.5	245	--	--	--
17	--	--	--	--	--	--	--	--	--
18	11.0	8.0	245	11.9	6.0	135	11.6	6.5	220
19	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--
21	14.2	8.0	135	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	11.4	7.5	250
24	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	12.0	7.0	260
26	--	7.5	220	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	11.6	7.0	260
31	--	--	--	--	--	--	--	--	--

	APRIL			MAY			JUNE		
DAY	DIS- SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS- SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS- SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
1	11.2	7.5	250	--	--	--	9.4	7.8	255
2	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--
6	--	--	--	10.2	7.2	255	--	--	--
7	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	10.0	8.0	260
9	10.7	8.0	155	--	--	--	--	--	--
10	--	--	--	10.0	7.4	255	9.7	8.0	250
11	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--
13	10.5	7.2	260	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	9.0	8.0	260
16	10.3	7.2	250	--	--	--	--	--	--
17	--	--	--	11.7	8.0	250	8.7	8.2	230
18	--	--	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--
20	12.3	7.8	255	11.0	8.0	260	--	--	--
21	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	9.7	8.4	260
23	--	--	--	--	--	--	--	--	--
24	--	--	--	10.3	8.0	255	9.4	8.2	260
25	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--
27	--	--	--	10.3	7.8	265	--	--	--
28	--	--	--	--	--	--	--	--	--
29	11.6	7.2	220	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--
31	--	--	--	10.6	8.2	265	--	--	--

07054501 WHITE RIVER AT BULL SHOALS DAM, ARK.--Continued

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JULY			AUGUST			SEPTEMBER		
DAY	DIS- SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS- SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS- SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
1	10.8	8.0	265	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--
3	--	--	--	7.9	8.2	265	--	--	--
4	--	--	--	--	--	--	--	--	--
5	--	--	--	7.3	8.4	270	--	--	--
6	--	8.5	260	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--
9	7.8	8.0	255	--	--	--	--	--	--
10	--	--	--	7.3	8.5	265	--	--	--
11	--	--	--	--	--	--	--	--	--
12	--	--	--	7.0	8.8	270	--	--	--
13	8.8	8.0	250	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--
15	8.0	8.0	155	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--
17	--	--	--	7.0	9.0	265	--	--	--
18	--	--	--	--	--	--	--	--	--
19	--	--	--	6.7	9.0	255	--	--	--
20	6.8	8.1	180	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--
22	7.8	8.0	265	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--
24	--	--	--	7.0	9.0	260	--	--	--
25	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--
27	10.0	8.5	265	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--

07055500 WHITE RIVER AT COTTER, ARK.

LOCATION.--Lat 36°16',long 92°33', in NW¼NW¼ sec.26, T.19 N., R.15 W., Marion County, temperature recorder on right bank, 100 yards downstream from bridge on U.S. Highway 62, 2 miles southwest of Cotter, 3.3 miles downstream from Hightower Creek, and 17 miles downstream from Bull Shoals Dam.

DRAINAGE AREA.--6,115 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1947 to July 1959.
Water temperatures: October 1947 to July 1959, October 1966 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 21.5°C July 6; minimum, freezing point Feb. 8.

Period of record:
Water temperatures (1951-59, 1966-71): Maximum, 26.0°C Sept. 20, 1954; minimum, freezing point Feb. 8, 1971.

REMARKS.--Flow regulated by upstream reservoirs. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	10.0	10.5	10.0	12.0	10.0	8.5	6.0	5.0	4.0	5.5	4.5
2	12.0	10.0	11.0	9.5	11.0	9.5	7.0	6.5	4.5	4.5	5.0	4.5
3	12.0	9.5	11.0	10.0	11.5	10.0	9.0	7.0	4.5	4.5	5.0	3.5
4	12.0	9.5	11.0	10.0	11.0	9.0	8.0	5.5	7.0	4.5	5.5	3.5
5	12.0	9.5	13.0	10.5	10.0	9.5	7.0	4.5	5.5	3.5	5.5	4.0
6	11.5	10.0	12.0	10.0	10.5	8.5	6.5	4.5	4.5	3.5	4.5	4.0
7	12.0	10.5	12.0	10.0	10.5	8.5	6.5	4.5	3.5	2.0	6.5	3.5
8	13.0	10.5	12.0	10.5	10.5	8.5	6.5	4.5	4.5	0.0	5.5	3.0
9	11.5	9.5	11.5	11.0	10.5	9.5	6.5	4.5	4.5	1.0	5.5	3.5
10	11.0	9.0	13.0	11.0	10.5	10.0	7.0	5.0	5.5	1.5	6.0	4.0
11	12.0	9.0	11.5	10.0	10.5	9.5	8.5	6.0	5.0	4.0	6.0	4.0
12	12.0	11.0	11.5	10.5	9.5	8.5	6.5	6.5	5.0	3.5	6.0	4.0
13	11.5	10.5	11.5	11.0	10.0	8.5	6.5	6.0	4.5	2.0	10.0	4.5
14	11.5	10.5	11.0	10.5	10.5	8.0	7.0	5.5	5.5	3.5	13.5	5.5
15	11.5	10.0	11.0	9.5	9.5	9.0	6.5	5.0	5.0	3.5	13.0	6.0
16	11.5	9.0	11.5	9.0	9.5	9.0	6.0	5.0	5.5	3.0	6.5	5.0
17	11.0	9.0	10.5	9.5	10.0	8.5	6.0	5.0	6.0	4.0	7.0	4.5
18	10.5	10.0	11.5	9.5	10.0	8.5	6.0	5.0	6.5	4.5	6.0	5.0
19	11.5	10.0	11.5	10.0	9.5	8.5	6.0	4.5	8.0	4.5	5.5	4.0
20	11.5	10.0	11.5	9.5	9.0	8.5	6.0	4.5	5.5	3.5	9.0	4.0
21	11.5	10.0	11.5	9.5	9.0	8.5	6.5	5.0	4.5	4.0	9.5	4.5
22	11.0	10.5	11.5	10.0	10.0	9.0	6.0	5.5	5.5	4.0	9.0	4.5
23	11.0	10.5	10.0	8.0	9.0	8.0	6.0	4.5	5.5	4.0	7.0	4.5
24	11.0	11.0	11.0	8.5	9.0	6.5	6.0	5.5	5.5	3.0	5.5	4.5
25	15.0	10.5	10.5	8.5	8.5	6.5	7.0	5.0	10.0	4.5	5.0	4.5
26	13.5	11.5	11.5	10.5	9.0	6.0	6.0	5.0	6.0	4.0	4.5	4.5
27	13.5	11.0	11.0	10.0	8.5	6.5	6.0	4.0	6.5	3.5	10.0	4.5
28	13.5	10.5	10.5	10.0	9.0	6.5	6.0	4.5	5.5	4.5	8.0	5.5
29	12.0	10.0	11.5	10.0	9.0	6.5	6.5	4.5	--	--	10.0	5.0
30	12.0	10.0	11.5	10.0	8.0	6.5	6.0	5.0	--	--	10.0	4.5
31	12.0	9.5	--	--	8.0	7.0	5.5	4.5	--	--	12.0	6.5
AVG	12.0	10.0	11.5	10.0	10.0	8.5	6.5	5.5	5.5	3.5	7.5	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	6.0	15.0	8.5	11.5	7.0	15.5	9.5	21.0	15.0	15.5	9.5
2	10.0	4.5	14.5	10.5	12.0	7.0	18.5	10.0	20.0	12.0	14.5	9.5
3	11.0	4.5	15.5	9.5	14.5	7.0	20.0	14.0	16.0	9.0	15.0	8.5
4	11.5	7.0	11.0	6.0	12.0	7.0	19.0	15.5	15.0	11.0	17.0	9.0
5	9.5	6.0	11.0	7.0	12.0	6.5	19.5	14.5	18.0	13.5	17.0	9.5
6	--	--	10.5	8.5	16.0	7.0	21.5	9.0	16.0	14.5	15.5	9.5
7	--	--	14.5	7.0	14.5	8.0	16.5	8.5	18.5	13.0	16.5	9.5
8	--	--	13.0	8.0	12.0	8.0	14.0	8.0	21.0	13.5	14.5	9.5
9	--	--	13.5	10.0	13.5	8.0	16.0	8.0	20.0	9.0	15.0	9.5
10	--	--	15.0	9.5	15.5	9.0	14.0	9.5	16.0	9.0	13.5	9.0
11	--	--	10.5	8.0	16.5	8.0	14.5	9.0	14.5	8.5	16.0	9.5
12	--	--	9.5	6.5	16.0	7.0	18.5	8.5	17.0	9.0	17.0	11.0
13	--	--	10.5	6.0	17.0	10.0	14.0	8.0	16.0	8.5	18.5	11.5
14	--	--	10.5	6.5	11.5	8.5	18.5	8.5	15.5	8.0	17.0	10.0
15	10.5	6.0	13.0	6.0	14.5	8.0	15.5	9.0	18.0	11.5	16.0	9.5
16	11.0	6.0	14.5	7.0	14.5	8.0	16.0	8.5	15.5	10.0	16.5	11.5
17	9.5	6.0	11.5	6.5	14.5	7.0	18.0	8.5	16.0	9.0	16.5	14.0
18	12.0	8.5	11.5	7.0	14.0	7.0	13.0	8.5	16.0	9.0	16.5	12.0
19	14.5	8.5	11.5	7.0	15.0	7.0	20.0	13.0	15.0	8.5	16.0	12.0
20	9.0	6.5	12.0	6.5	19.5	10.5	18.0	11.5	16.0	8.5	16.0	11.0
21	10.5	6.0	13.0	6.5	20.0	12.0	19.0	11.5	16.5	8.5	16.0	11.0
22	11.0	6.0	10.5	7.0	17.0	9.0	17.0	9.0	16.0	9.5	12.0	9.5
23	8.5	6.5	11.5	8.0	16.5	9.0	16.5	11.5	15.0	9.0	14.5	10.0
24	13.0	5.5	12.0	7.0	14.5	8.0	16.0	11.5	15.0	8.5	15.5	10.5
25	10.5	6.5	10.5	6.5	14.0	7.0	19.0	11.5	16.0	9.0	15.5	13.0
26	10.5	7.0	10.0	6.5	17.0	8.0	16.5	10.0	16.5	9.0	19.0	13.5
27	10.5	7.0	8.5	7.0	18.0	9.5	19.0	9.5	16.0	9.0	18.0	10.0
28	11.5	6.0	9.5	6.5	16.0	9.5	17.0	13.0	18.0	13.0	12.0	10.0
29	9.5	7.0	11.0	6.0	15.0	8.0	19.5	13.0	17.0	13.0	12.0	10.0
30	11.5	6.5	11.0	6.0	12.0	8.5	19.0	14.5	18.0	13.5	12.0	10.0
31	--	--	11.5	8.0	--	--	16.5	13.5	15.5	9.5	--	--
AVG	--	--	12.0	7.5	15.0	8.0	17.5	10.5	16.5	10.5	15.5	10.5

07059500 NORFORK LAKE NEAR NORFORK, ARK.

(Formerly published as Norfork Reservoir near Norfork, Ark.)

LOCATION.--Lat 36°14'57", long 92°14'16", in SE¼ sec.2, T.18 N. R.12 W., Baxter County, at dam on North Fork River, 4.3 miles northeast of Norfork, and at mile 4.8.

DRAINAGE AREA.--1,806 sq mi.

PERIOD OF RECORD.--Dissolved oxygen, water temperature, and specific conductance: October 1967 to September 1969, October 1970 to September 1971.

REMARKS.--Records furnished (for log boom location about 1,000 ft upstream from dam) by Corps of Engineers, Little Rock, Ark.

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER 15			NOVEMBER 30			JANUARY 28		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
0	8.2	20.5	550	--	--	--	--	--	--
5	8.1	20.5	550	8.5	12.0	570	11.7	7.6	630
10	8.1	20.5	550	9.1	11.9	570	12.0	6.7	640
20	7.9	20.5	550	9.1	11.9	570	11.1	6.0	660
30	7.9	20.5	550	9.1	11.9	570	11.1	5.9	680
40	7.9	20.5	550	9.1	11.9	570	11.1	5.8	690
50	7.8	20.5	550	8.9	11.9	575	--	--	--
60	7.7	20.5	550	8.9	11.9	575	10.8	5.8	700
70	7.4	20.5	550	8.6	11.9	580	--	--	--
80	8.2	15.2	590	8.2	11.9	580	10.3	5.8	700
90	7.6	13.0	600	7.7	11.9	590	--	--	--
100	7.4	11.5	640	7.6	11.5	580	9.2	5.8	710
110	6.9	10.8	650	7.6	11.5	580	--	--	--
120	6.4	10.0	680	5.6	11.5	590	8.6	5.8	710
130	6.5	9.5	700	3.6	11.5	600	--	--	--
135	6.5	9.5	700	--	--	--	--	--	--
140	--	--	--	.5	11.0	650	8.6	5.8	720
150	--	--	--	.5	10.0	700	--	--	--
160	--	--	--	--	--	--	6.7	5.8	730

	FEBRUARY 10			APRIL 4			JUNE 11		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
5	12.5	7.9	640	4.4	18.8	480	8.0	25.1	660
10	12.1	6.9	660	4.8	18.4	480	8.5	24.9	660
15	--	--	--	5.0	17.9	480	10.0	23.6	660
20	11.6	6.3	680	5.1	17.8	490	9.5	22.0	660
25	--	--	--	4.7	16.5	490	9.4	20.5	660
30	11.9	6.0	680	5.6	12.9	490	9.4	18.3	690
35	--	--	--	6.2	10.9	500	9.3	16.6	730
40	11.9	6.0	690	6.2	10.0	500	8.6	13.1	700
45	--	--	--	6.1	9.5	510	--	--	--
50	--	--	--	5.8	9.4	520	8.6	10.1	700
60	11.1	6.0	690	5.7	8.5	550	8.3	9.8	700
70	--	--	--	--	--	--	8.2	9.5	710
80	11.1	5.9	700	5.6	7.0	570	8.5	9.2	720
90	--	--	--	--	--	--	8.7	9.0	720
100	9.2	5.9	710	5.7	6.6	580	8.7	9.0	720
120	8.6	5.9	710	6.1	5.6	580	8.7	9.0	720
140	8.3	5.8	720	5.7	5.5	590	8.7	9.0	710
160	7.2	5.8	720	1.1	5.5	590	7.2	9.0	710

	AUGUST 30			SEPTEMBER 20		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
5	6.2	27.3	625	8.1	25.9	615
10	6.2	27.5	630	8.1	25.9	615
15	6.0	27.6	660	7.7	25.9	615
20	5.8	27.6	670	7.7	25.8	615
25	5.9	27.5	670	7.7	25.8	615
30	5.9	27.5	670	7.3	25.7	615
35	5.8	27.2	675	7.1	25.6	615
40	6.7	22.0	680	7.2	25.5	620
45	6.8	19.1	670	5.7	23.2	660
50	5.8	16.4	670	4.1	19.6	700
60	5.9	13.3	695	3.5	15.5	710
70	5.4	10.9	700	3.6	12.1	720
80	5.1	10.0	700	2.9	10.9	730
90	5.2	9.8	710	--	--	--
100	3.2	9.0	710	1.8	10.0	740
120	3.0	8.2	720	.8	9.8	750
140	2.2	8.0	720	.6	9.3	740
150	--	--	--	.6	9.3	750
160	1.7	8.0	740	--	--	--

07060000 NORTH FORK RIVER AT NORFORK DAM, NEAR NORFORK, ARK.

LOCATION.--Lat 36°14'57", long 92°14'18", in SE¼SW¼ sec.2, T.18 N., R.12 W., Baxter County at gaging station at Norfork Dam, 3.9 miles northeast of Norfork, and at mile 4.8.

DRAINAGE AREA.--1,806 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1946 to September 1971.
Water temperatures: October 1967 to September 1971.

REMARKS.--Flow completely regulated by Norfork Reservoir. Records furnished by Corps of Engineers, Little Rock, Ark.

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JANUARY			FEBRUARY			MARCH		
DAY	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
1	--	--	--	--	--	--	11.3	7.0	320
2	--	--	--	10.2	8.0	320	--	--	--
3	--	--	--	--	--	--	--	--	--
4	9.8	10.0	315	10.9	7.0	300	11.8	7.5	310
5	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--
7	10.7	10.0	315	--	--	--	--	--	--
8	--	--	--	11.4	7.0	320	11.5	7.0	310
9	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--
11	10.6	10.0	300	11.9	6.5	330	11.9	7.0	300
12	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--
14	10.7	10.0	320	--	--	--	--	--	--
15	--	--	--	--	--	--	11.3	6.5	315
16	--	--	--	11.5	6.5	320	--	--	--
17	--	--	--	--	--	--	--	--	--
18	11.7	8.0	330	11.4	6.5	320	12.4	6.0	320
19	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--
21	12.7	7.5	300	--	--	--	--	--	--
22	--	--	--	11.0	6.5	320	12.6	7.0	310
23	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--
25	12.4	7.0	310	11.7	6.0	300	12.0	7.0	320
26	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--
28	12.1	7.0	315	--	--	--	--	--	--
29	--	--	--	--	--	--	12.4	7.5	--
30	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--

	APRIL			MAY			JUNE		
DAY	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
1	12.9	7.5	310	--	--	--	--	--	--
2	--	--	--	--	--	--	10.0	8.5	320
3	--	--	--	10.2	8.0	310	--	--	--
4	--	--	--	--	--	--	--	--	--
5	12.5	8.0	320	--	--	--	--	--	--
6	--	--	--	10.2	8.0	310	--	--	--
7	--	--	--	--	--	--	--	--	--
8	12.4	8.0	310	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--
10	--	--	--	10.0	8.5	310	--	--	--
11	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--
13	11.1	8.0	315	10.3	8.0	310	--	--	--
14	--	--	--	--	--	--	--	--	--
15	10.2	8.0	310	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--
17	--	--	--	11.4	8.0	315	--	--	--
18	--	--	--	--	--	--	--	--	--
19	11.1	8.0	320	--	--	--	--	--	--
20	--	--	--	10.5	8.5	315	--	--	--
21	--	--	--	--	--	--	--	--	--
22	11.4	8.0	320	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--
24	--	--	--	10.5	8.5	310	--	--	--
25	--	--	--	--	--	--	--	--	--
26	9.8	8.0	320	--	--	--	--	--	--
27	--	--	--	10.6	8.5	315	--	--	--
28	--	--	--	--	--	--	--	--	--
29	10.5	8.5	310	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--

07060500 WHITE RIVER AT CALICO ROCK, ARK.

LOCATION.--Lat 36°06'58", long 92°08'35", in SE¼NE¼ sec.22, T.17 N., R.11 W., Izard County, at gaging station on left bank at Calico Rock, 200 ft upstream from bridge on State Highway 5, just upstream from Calico Creek, 3.2 miles downstream from Cataract Creek, 6 miles upstream from Piney Creek, and at mile 359.1.

DRAINAGE AREA.--9,965 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 27.5°C July 6; minimum, 3.0°C Feb. 8.

Period of record:
Water temperatures: Maximum, 27.5°C July 6, 1971; minimum, 3.0°C Dec. 25, 1967, Feb. 8, 1971.

REMARKS.--Flow regulated by upstream reservoirs. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.0	12.0	11.0	--	--	9.0	8.0	5.5	5.0	--	--
2	15.0	12.0	11.0	10.5	--	--	8.5	8.0	5.5	4.5	--	--
3	14.5	11.5	--	--	--	--	9.0	8.5	5.0	4.5	--	--
4	14.0	12.0	--	--	--	--	8.5	6.5	6.5	5.0	6.0	4.5
5	14.5	13.0	--	--	--	--	7.0	5.5	6.5	4.5	6.5	5.5
6	14.5	13.0	--	--	--	--	6.5	5.0	5.5	5.0	6.5	5.5
7	14.5	14.0	--	--	--	--	--	--	5.0	4.0	6.0	5.0
8	15.5	14.5	--	--	10.5	10.0	--	--	4.5	3.0	8.0	4.5
9	15.0	12.0	--	--	11.0	10.5	--	--	--	--	6.5	5.5
10	13.0	10.5	--	--	11.5	11.0	--	--	--	--	7.0	5.5
11	13.0	12.0	--	--	11.5	10.0	--	--	--	--	7.0	5.5
12	14.5	13.0	--	--	10.5	9.5	8.0	7.0	--	--	8.0	6.0
13	14.5	13.5	--	--	10.5	9.5	8.0	7.0	--	--	9.0	6.5
14	14.0	13.5	--	--	10.5	9.5	8.0	7.0	--	--	14.0	9.0
15	14.0	13.0	--	--	10.0	9.5	8.0	6.5	--	--	14.0	9.5
16	13.5	12.0	--	--	10.0	9.5	6.5	6.0	--	--	10.5	7.0
17	12.0	11.0	--	--	10.5	[illegible]	6.5	6.0	7.0	6.0	8.5	7.0
18	12.0	11.5	--	--	10.5	9.5	6.5	5.5	7.0	6.5	8.5	6.0
19	13.0	11.5	--	--	10.5	9.5	6.5	5.5	9.5	6.5	6.5	5.5
20	13.0	11.5	--	--	9.5	9.5	6.0	5.5	8.0	6.5	7.0	5.5
21	13.5	11.5	--	--	10.0	9.5	6.5	5.5	7.0	5.5	9.5	6.5
22	13.0	12.0	--	--	11.0	10.0	6.5	6.0	6.0	5.0	11.5	8.5
23	13.0	12.0	13.5	12.0	11.0	9.0	6.5	5.5	6.0	4.5	9.5	7.0
24	13.0	12.0	12.0	11.0	--	--	6.5	6.0	6.5	5.0	7.0	6.5
25	14.5	12.0	13.0	11.5	--	--	8.0	6.5	8.5	6.5	6.5	5.5
26	15.5	14.0	12.0	10.5	--	--	7.0	6.0	8.5	6.5	8.5	6.0
27	15.0	14.0	10.5	10.0	--	--	6.5	5.5	--	--	11.5	6.5
28	15.0	14.5	10.5	10.0	--	--	6.5	5.5	--	--	10.0	9.0
29	14.0	13.5	--	--	9.5	8.5	7.0	5.5	--	--	11.0	8.0
30	13.5	12.0	--	--	8.5	8.0	4.5	3.5	--	--	11.5	8.0
31	13.5	12.0	--	--	8.5	8.0	6.5	5.5	--	--	13.5	9.0
AVG	14.0	12.5	--	--	--	--	7.0	6.0	--	--	9.0	6.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	10.5	16.5	10.5	16.0	13.0	18.0	10.5	23.5	19.0	19.0	14.0
2	11.0	9.0	19.5	16.0	13.5	10.5	21.0	14.5	23.5	20.5	15.0	13.0
3	11.5	7.0	19.5	15.5	--	--	20.5	13.0	23.0	16.5	14.5	12.0
4	13.0	9.5	16.5	11.0	--	--	24.0	20.0	18.0	14.5	15.5	12.0
5	11.0	8.5	14.5	11.0	--	--	26.5	22.0	18.5	15.5	18.5	11.5
6	8.5	7.0	14.5	13.0	--	--	27.5	21.5	20.0	18.0	19.5	15.5
7	9.5	6.0	16.5	14.0	17.0	14.0	21.5	13.5	23.0	15.5	15.5	13.5
8	12.0	6.5	16.5	11.5	15.5	13.0	16.5	12.0	26.5	21.5	14.0	11.0
9	13.0	8.5	16.5	14.5	14.5	11.5	14.0	11.0	26.5	21.0	14.0	11.0
10	14.5	8.5	19.0	16.0	19.5	13.5	17.0	11.0	24.5	13.5	14.0	12.0
11	17.0	13.0	16.0	13.0	18.0	12.0	19.0	17.0	15.5	12.0	14.0	11.0
12	19.5	14.0	14.0	10.5	16.5	11.5	22.0	16.5	18.0	11.5	18.5	10.5
13	17.0	9.5	14.0	10.5	20.5	13.0	17.0	13.0	20.0	14.0	23.0	15.5
14	12.0	8.5	15.5	11.0	20.5	15.0	15.0	10.5	15.5	11.0	20.5	13.0
15	14.0	8.5	14.5	11.5	16.0	11.5	19.5	11.0	18.5	13.5	17.0	14.0
16	14.0	9.5	18.5	14.0	14.0	10.5	16.0	11.5	21.5	17.0	19.0	14.0
17	14.0	9.0	18.0	12.0	14.0	10.0	19.0	10.5	20.0	15.0	18.5	14.5
18	14.5	11.0	13.0	10.0	14.5	10.0	18.0	14.5	20.0	12.0	19.5	15.0
19	19.5	14.0	14.0	10.5	14.0	10.5	20.0	14.5	15.0	12.0	18.5	16.0
20	17.0	11.5	16.0	9.5	20.5	13.0	21.5	15.5	14.0	11.5	19.5	14.5
21	11.5	9.5	16.0	9.5	24.5	18.5	23.0	16.0	14.0	11.5	18.5	13.0
22	14.0	9.5	14.0	10.0	24.5	15.5	22.0	14.0	19.0	13.0	16.0	12.0
23	13.5	10.5	15.5	11.0	20.0	11.5	20.5	16.0	16.0	13.5	17.0	13.0
24	12.0	10.0	18.5	13.5	19.0	11.0	20.5	17.0	13.5	10.5	18.0	13.0
25	15.0	11.0	15.5	11.0	14.0	10.5	25.5	20.0	14.5	11.5	16.5	13.5
26	17.0	13.5	13.5	11.0	15.0	10.5	23.5	18.5	14.5	11.0	23.0	16.5
27	15.5	13.0	13.0	10.5	20.0	12.0	23.0	18.0	17.0	11.5	23.5	15.5
28	13.5	11.0	13.0	10.0	21.5	15.0	20.0	16.5	18.0	11.0	15.5	11.5
29	13.5	11.0	12.0	10.0	18.5	11.5	22.0	16.0	19.5	11.0	14.0	11.5
30	14.5	10.0	14.0	12.0	16.0	11.0	21.5	15.5	22.0	16.0	14.0	11.5
31	--	--	16.0	13.5	--	--	23.0	16.5	21.0	13.5	--	--
AVG	14.0	10.0	15.5	12.0	17.5	12.5	20.5	15.0	19.0	14.0	17.5	13.0

07060660 WHITE RIVER AT SYLAMORE, ARK.

LOCATION.--Lat 35°57'08", long 92°06'34", in N½ sec.12, T.15 N., R.11 W., Izard County, temperature recorder on right bank, 0.8 mile upstream from ferry at Sylamore, 0.8 mile upstream from South Sylamore Creek, and 8.5 miles downstream from Wideman Creek.

DRAINAGE AREA.--10,228 sq mi (estimated).

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 30.5°C July 6; minimum, 1.0°C Feb. 9.

Period of record:
Water temperatures: Maximum, 30.5°C July 6, 1971; minimum, 1.0°C Feb. 9, 1971.

REMARKS.--Flow regulated by upstream reservoirs. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	13.5	13.0	11.5	--	--	--	--	5.5	5.0	6.5	6.0
2	15.0	13.5	11.5	10.5	--	--	5.5	4.5	5.0	4.5	6.0	5.5
3	14.0	13.0	11.0	10.5	12.0	11.5	5.5	4.5	5.0	4.5	6.0	5.5
4	14.5	13.0	11.0	10.0	11.5	10.0	6.0	5.0	--	--	--	--
5	14.5	12.0	11.5	10.0	11.0	10.0	7.0	6.0	--	--	--	--
6	14.0	13.0	12.0	10.5	10.5	9.0	8.0	7.0	6.0	5.0	7.0	5.5
7	14.5	13.0	12.0	11.5	10.0	9.0	8.0	7.0	5.0	4.0	6.5	5.0
8	15.5	13.5	12.0	11.5	10.5	9.5	8.5	8.0	4.0	2.0	8.5	4.5
9	14.0	13.0	13.0	11.5	11.0	10.0	8.0	7.0	3.0	1.0	6.5	6.0
10	13.0	11.5	--	--	11.5	11.0	--	--	4.0	1.5	7.0	6.0
11	13.5	11.5	--	--	11.5	10.0	--	--	5.5	4.0	7.0	6.5
12	14.0	13.0	--	--	--	--	--	--	5.5	5.0	8.0	7.0
13	15.0	14.0	--	--	--	--	--	--	5.0	4.0	9.0	8.0
14	14.5	14.0	--	--	10.0	9.5	--	--	5.5	4.5	14.0	9.0
15	14.0	13.0	--	--	10.0	9.5	--	--	6.0	5.0	15.0	11.5
16	13.0	12.0	--	--	10.0	9.5	--	--	6.0	5.5	11.5	8.0
17	12.0	11.5	--	--	10.0	9.5	6.5	6.5	7.0	6.0	9.0	7.0
18	12.0	11.5	--	--	10.0	9.5	6.5	5.5	8.5	7.0	8.5	6.5
19	--	--	11.0	9.5	10.5	10.0	6.0	5.0	9.0	8.0	7.0	6.0
20	--	--	11.0	10.0	10.0	9.5	5.5	5.0	9.0	7.0	7.0	6.0
21	--	--	10.0	8.0	10.0	9.5	6.5	5.0	9.0	7.0	10.0	6.5
22	12.0	11.5	9.0	6.5	10.5	9.5	6.5	6.5	8.0	6.5	12.0	8.0
23	12.0	12.0	9.5	8.0	10.5	9.0	6.5	6.5	7.0	5.5	9.5	7.0
24	13.0	--	11.5	9.5	9.0	8.0	7.0	6.0	6.5	5.0	8.0	6.5
25	14.0	12.0	12.0	11.5	8.5	7.0	--	--	8.5	6.5	6.5	6.0
26	15.0	13.5	12.0	11.5	8.0	6.5	7.0	6.0	9.5	8.5	8.0	6.0
27	15.0	14.5	12.0	11.0	8.5	7.0	6.0	6.0	8.5	7.0	9.5	7.0
28	15.0	14.0	--	--	8.5	7.0	6.0	6.0	8.0	6.5	10.0	9.0
29	14.0	13.5	--	--	9.0	8.5	7.0	6.0	--	--	13.5	9.0
30	13.5	13.0	--	--	8.5	8.0	7.0	6.5	--	--	14.0	8.5
31	13.5	12.0	--	--	8.5	7.0	6.5	5.5	--	--	13.5	10.0
AVG	14.0	13.0	--	--	10.0	9.0	--	--	6.5	5.0	9.0	7.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	11.0	18.0	13.0	17.0	15.0	17.0	13.5	26.5	19.0	23.0	18.5
2	13.0	9.5	21.0	15.5	16.0	13.0	23.5	16.5	25.0	20.5	18.5	15.5
3	12.0	9.0	21.0	15.5	15.0	12.0	23.0	18.5	23.0	20.5	16.0	14.5
4	14.0	10.0	17.0	15.5	18.0	14.5	25.0	18.5	20.5	18.0	17.0	14.0
5	11.0	9.0	16.0	14.5	20.5	13.0	27.0	21.0	20.0	17.0	17.0	15.0
6	9.0	7.0	16.0	15.0	15.0	12.0	30.5	23.5	21.0	18.0	23.5	17.0
7	10.0	6.5	18.0	14.5	18.5	15.0	25.0	20.5	25.5	19.5	19.0	15.0
8	12.0	8.0	17.0	15.5	18.0	14.5	21.0	17.0	27.5	21.0	15.0	12.0
9	14.5	10.5	17.0	15.5	16.0	13.5	16.0	13.0	30.0	23.5	14.0	12.0
10	15.5	11.0	20.5	16.0	20.5	14.5	17.0	13.0	25.0	15.5	18.0	13.0
11	19.0	11.5	18.5	15.5	19.5	17.0	22.0	15.5	16.5	14.0	13.5	12.0
12	20.5	14.5	16.0	14.0	18.5	16.0	23.0	19.0	18.5	13.5	20.0	12.0
13	16.5	14.5	15.0	11.5	21.5	15.5	22.0	14.5	23.0	16.5	23.0	15.5
14	14.5	11.0	15.5	13.0	21.0	19.0	16.5	13.0	19.0	13.0	21.0	17.0
15	14.5	10.5	16.0	14.0	19.5	17.0	19.5	14.0	19.5	13.0	20.5	18.0
16	14.0	12.0	18.5	14.0	17.0	14.0	18.0	16.0	23.5	18.0	20.0	15.5
17	14.0	11.0	20.5	16.5	16.0	13.5	19.5	14.0	23.5	20.0	20.5	17.0
18	15.5	13.5	18.5	12.0	16.0	13.5	20.0	18.0	21.0	16.5	21.5	16.5
19	20.5	14.0	15.0	12.0	15.0	12.0	21.0	16.5	18.5	14.5	18.5	16.0
20	18.5	15.5	16.0	12.0	19.5	13.0	21.5	18.0	15.0	13.0	21.0	15.0
21	15.5	11.5	16.5	14.0	26.0	18.5	23.0	18.5	15.0	13.5	20.0	15.0
22	14.0	11.0	16.5	12.0	26.5	22.0	24.0	19.5	18.0	13.5	15.5	14.5
23	15.0	12.0	16.0	14.5	22.0	19.0	20.5	19.0	23.0	16.5	18.5	14.5
24	14.5	13.0	19.0	16.0	--	--	21.5	18.0	19.0	12.0	19.0	15.0
25	16.5	11.0	18.0	14.0	--	--	28.0	20.0	18.0	12.0	17.0	15.5
26	19.0	14.0	16.0	14.0	17.0	13.5	27.0	23.0	18.0	13.0	23.0	15.5
27	18.0	15.5	14.5	11.5	21.5	14.5	27.0	22.0	17.0	13.5	24.5	19.0
28	15.5	14.0	12.0	11.5	25.5	18.5	23.0	18.5	16.5	14.0	21.0	13.0
29	14.5	12.0	13.0	11.5	21.5	18.0	24.5	18.5	21.0	15.5	13.5	12.0
30	16.0	13.0	15.5	11.5	18.5	15.0	24.0	20.0	23.5	16.5	13.5	12.0
31	--	--	17.0	13.5	--	--	25.0	18.0	24.0	18.5	--	--
AVG	15.0	11.5	17.0	14.0	19.0	15.0	22.0	18.0	21.0	16.0	19.0	15.0

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, ARK.
(Hydrologic bench-mark station)

LOCATION.--Lat 35°59'30", long 92°12'50", in SW¼NW¼ sec.25, T.16 N., R.12 W., Stone County, at gaging station on right bank, 30 ft upstream from bridge on Ozark National Forest service road, 200 ft downstream from Gunner Creek, 2.7 miles north of Fifty Six, and 7.0 miles upstream from South Sylamore Creek.

DRAINAGE AREA.--58.4 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1966 to September 1971 (1969-71 includes biological).

REMARKS.--Sampling program established for hydrologic bench-mark station in August 1967.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT. 30...	90	6.2	0	20	--	--	--	--	--	--	--	--
DEC. 02...	12	6.1	40	0	--	--	--	--	--	--	--	--
JAN. 12...	21	6.2	0	10	1	11	0	7	1	0	6	10
FEB. 19...	61	5.6	0	0	--	--	--	--	--	--	--	--
MAR. 24...	15	5.5	0	0	--	--	--	--	--	--	--	--
APR. 28...	12	6.2	0	15	1	0	6	6	3	0	8	20
MAY 26...	17	5.6	30	20	--	--	--	--	--	--	--	--
JUNE 25...	6.4	6.8	0	10	--	--	--	--	--	--	--	--
JULY 21...	3.6	7.2	10	10	--	--	--	--	--	--	--	--
AUG. 25...	3.4	8.1	50	20	--	--	--	--	--	--	--	--
SEP. 21...	4.0	7.2	50	10	--	--	--	--	--	--	--	--

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT. 30...	--	48	1.5	2.0	1.6	146	0	8.2	.7	.0	.0	.000
DEC. 02...	1.8	46	6.7	1.3	.9	172	0	6.8	1.4	.2	.0	.000
JAN. 12...	--	45	5.6	1.0	.8	160	0	6.8	3.0	.0	.0	.010
FEB. 19...	--	41	4.7	1.1	.8	141	0	5.8	1.3	.0	.0	.030
MAR. 24...	--	48	6.1	1.4	.7	176	0	5.4	2.3	.1	.0	.020
APR. 28...	--	50	6.5	1.5	.9	184	0	8.0	2.0	.0	.3	.000
MAY 26...	--	48	6.2	1.3	.8	170	0	5.2	1.3	.0	.5	.000
JUNE 25...	--	47	6.5	1.7	.9	166	0	9.6	1.9	.4	.2	.12
JULY 21...	--	47	7.0	2.0	1.0	180	0	4.4	1.7	.2	.2	.000
AUG. 25...	--	45	7.0	1.8	1.1	164	0	2.4	4.7	.0	.2	.000
SEP. 21...	--	45	7.4	1.7	1.0	176	0	1.6	2.3	.0	.1	.000

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
OCT. 30...	130	7	123	3	.1	234	8.0	3	7	1.7	--
DEC. 02...	140	2	141	2	.0	265	8.3	3	4	.13	.0
JAN. 12...	140	4	131	2	.0	259	8.3	5	1	.06	1.0
FEB. 19...	120	6	116	2	.0	239	8.0	1	17	2.8	.0
MAR. 24...	140	1	144	2	.1	278	8.3	3	14	.57	.0
APR. 28...	150	0	151	2	.1	283	8.3	1	6	.19	1.0
MAY 26...	150	6	139	2	.0	275	8.3	2	10	.46	.7
JUNE 25...	140	8	136	2	.1	279	7.7	--	13	.22	6.1
JULY 21...	150	1	148	3	.1	303	8.0	2	11	.11	1.2
AUG. 25...	140	6	134	3	.1	279	7.5	0	8	.07	2.0
SEP. 21...	140	0	144	3	.1	281	7.8	0	12	.13	1.6

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, ARK.--Continued

ANALYSES OF ADDITIONAL SAMPLES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED NATURAL URANIUM (U) (UG/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
30...	.15	.05	2.2	.7	1.7	1.9	<.4	<.1	<.4	<.4	130	<1
SEP.												
21...	.32	.05	<1.7	<.6	1.9	2.4	<.4	<.1	<.4	<.4	160	<1

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
OCT.									
30...	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP.									
21...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
OCT.								
30...	.00	.00	.00	.00	.00	.00	.00	.00
SEP.								
21...	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)
OCT.							
30...	.00	.00	.00	.00	.00	.00	.00
SEP.							
21...	<.20	.30	<.20	<.20	<.20	<.20	<.20

DATE	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)
OCT.							
30...	.00	.00	.00	.00	.00	.00	.00
SEP.							
21...	<.20	<.20	<1.0	<.20	<.20	<.20	--

FIELD ANALYSES

DATE	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.					
30...	12.5	9.7	91	57	--
DEC.					
02...	12.5	10.0	94	--	--
JAN.					
12...	8.0	11.6	97	120	--
FEB.					
19...	9.0	10.6	91	E38	--
MAR.					
24...	6.0	12.8	103	--	--
APR.					
28...	14.0	8.6	83	280	--
MAY					
26...	16.5	8.8	90	42	2
JUNE					
25...	24.0	6.3	74	--	--
JULY					
21...	20.0	7.0	76	230	E16
AUG.					
25...	23.0	6.2	71	>80	4
SEP.					
21...	18.0	8.9	93	42	--

< Less than.
> Greater than.
E Estimated.

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, ARK.--Continued

MACROINVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

APRIL 28, 1971-COLLECTED BY A SURBER SAMPLER 50 FEET DOWNSTREAM FROM BRIDGE

DECAPODA	NO.
Orconectes propinquus	1

EPHEMEROPTERA	NO.
Stenonema	4
Isonychia sicca	1

MEGALOPTERA	NO.
Corydalus cornutus	4

COLEOPTERA	NO.
Psephenus	1

GASTROPODA	NO.
Viviparidae	45

APRIL 28, 1971-COLLECTED BY A SURBER SAMPLER 100 FEET DOWNSTREAM FROM BRIDGE

DECAPODA	NO.
Orconectes propinquus Girard	1

EPHEMEROPTERA	NO.
Isonychia sicca	1
Stenonema	1

ODONATA	NO.
Lanthus	1

MEGALOPTERA	NO.
Corydalus cornutus	1

GASTROPODA	NO.
Viviparidae	48

APRIL 28, 1971-COLLECTED BY A SURBER SAMPLER AT LOCATION OF BASKET SAMPLER, 200 FEET BELOW BRIDGE

EPHEMEROPTERA	NO.
Stenonema	13
Isonychia sicca	1

TRICHOPTERA	NO.
Psychomyia	1

COLEOPTERA	NO.
Psephenus	1

GASTROPODA	NO.
Viviparidae	12

MISCELLANEOUS	NO.
Etheostoma nigrum	1
Fish fry	6

APRIL 28, 1971-RANDOM RIPPLE SAMPLE COLLECTED WITH A 210 u NITEX SIEVE FROM BRIDGE TO 600 FEET DOWNSTREAM

DECAPODA	NO.
Orconectes propinquus Girard	1

EPHEMEROPTERA	NO.
Isonychia sicca	10
Cinygma	6
Stenonema	12

PLECOPTERA	NO.
Nemoura venosa	1
Isogenus modesta	1

MEGALOPTERA	NO.
Corydalus cornutus	15

TRICHOPTERA	NO.
Cheumatopsyche	1
Psychomyia	1

COLEOPTERA	NO.
Psephenus	1
Helichus (Adult)	3
Helichus (nymph)	1

DIPTERA	NO.
Tabanus (Horsefly)	1
Tendipedidae (Midge)	4

GASTROPODA	NO.
Viviparidae	42

MISCELLANEOUS	NO.
Cyprinodontidae (Minnow)	2
Etheostoma nigrum (Johnney Darter)	2

APRIL 28, 1971-RANDOM POOLS AND EDDYS COLLECTED WITH A 210 u NITEX SIEVE FROM BRIDGE TO 600 FEET DOWNSTREAM

EPHEMEROPTERA	NO.
Stenonoma	23
Ephemerella	2

PLECOPTERA	NO.
Nemoura	1
Perlinella drymo Newman	1

ODONATA	NO.
Lanthus	8
Boyeria	1
Macromia	2
Perithemis domitia	5
Archilestes	1
Amphiagrion conditum	2
Chromagrion saucium	1
Helocordulia	1
Coenagrionidae	1

TRICHOPTERA	NO.
Helicopsyche (case)	6
Molannidae (case)	4
Brachycentrus	1

COLEOPTERA	NO.
Psephenus	7
Helichus	3

DIPTERA	NO.
Tendipedidae	6
Tetanoceridae (marsh fly)	1

GASTROPODA	NO.
Viviparidae	24

MISCELLANEOUS	NO.
Etheostoma nigrum	1
Centrarcidae (bream)	1
Fish fry	1
Ranidae (tadpole)	1
Cyprinodontidae	1
Leech (Order Hirudinea)	1
Bryozoan colony	1

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, ARK.--Continued

MACROINVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

SEPTEMBER 10, 1971-COLLECTED BY A SURBER SAMPLER 50 FEET DOWNSTREAM FROM BRIDGE

EPHEMEROPTERA	NO.
Stenonema	2
Ephemera	1

ODONATA	NO.
Lanthus	1

TRICHOPTERA	NO.
Oecetis	1

COLEOPTERA	NO.
Psephenus	9

DIPTERA	NO.
Tendipedidae (midge)	3

GASTROPODA	NO.
Viviparidae	8

MISCELLANEOUS	NO.
Etheostoma nigrum	1

SEPTEMBER 10, 1971-RANDOM RIFFLE SAMPLE COLLECTED WITH A 210 u NITEX SIEVE FROM BRIDGE TO 600 FEET DOWNSTREAM

DECAPODA	NO.
Orconectes propinquus Girard	4

EPHEMEROPTERA	NO.
Stenonema	4
Isonychia sicca	8

PLECOPTERA	NO.
Isogenus modesta Banks	1

ODONATA	NO.
Coenagrionidae	1

HEMIPTERA	NO.
Rhagouelia (Adult)	1

MEGALOPTERA	NO.
Corydalus cornutus	6

TRICHOPTERA	NO.
Cheumatopsyche	3

COLEOPTERA	NO.
Psephenus	2
Helichus (Adult)	2

GASTROPODA	NO.
Viviparidae	1

MISCELLANEOUS	NO.
Cottus carolinae (fish)	1
Cyprinodontidae	1

SEPTEMBER 10, 1971-RANDOM POOLS AND EDDYS COLLECTED WITH A 210 u NITEX SIEVE FROM BRIDGE TO 600 FEET DOWNSTREAM

EPHEMEROPTERA	NO.
Stenonema	5
Ephemera	1

ODONATA	NO.
Boyeria	2
Hagenius brevistylus	2
Lanthus	1
Chromagrion conditum	5
Archilestes	1
Amphiagrion conditum	3
Macromia	1

MEGALOPTERA	NO.
Corydalus cornutus	2

COLEOPTERA	NO.
Psephenus	1
Elmidae	1

GASTROPODA	NO.
Viviparidae	2

MISCELLANEOUS	NO.
Etheostoma nigrum	2
Cyprinodontidae	2
Centrarchidae	2

FEBRUARY 1 , 1971-COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FEET DOWNSTREAM FROM BRIDGE ON JAN. 12, 1971, AND REMOVED FEB. 19, 1971

DECAPODA	NO.
Orconectes propinquus Girard	1

EPHEMEROPTERA	NO.
Stenonema	15
Isonychia sicca	4

PLECOPTERA	NO.
Isoperla	1

ODONATA	NO.
Lanthus	1

MEGALOPTERA	NO.
Corydalus cornutus	1

TRICHOPTERA	NO.
Helicopsyche (case)	2
Cheumatopsyche	1

DIPTERA	NO
Tendipedidae	1

GASTROPODA	NO.
Viviparidae	6

MARCH 24, 1971-COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FEET DOWNSTREAM FROM BRIDGE ON FEB. 19, 1971, AND REMOVED MAR. 24, 1971

EPHEMEROPTERA	NO.
Stenonema	20
Isonychia sicca	3
Cinygma	2

PLECOPTERA	NO.
Isogenus modesta Banks	1

TRICHOPTERA	NO.
Helicopsyche (case)	1

COLEOPTERA	NO.
Ectoparia	1
Psephenus	1

GASTROPODA	NO.
Viviparidae	13

MISCELLANEOUS	NO.
Icthaluridae (catfish)	1

07060710 NORTH SYLAMORE CREEK NEAR FIFTY SIX, ARK.--Continued

MACROINVERTEBRATE ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

APRIL 28, 1971-COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FEET DOWNSTREAM FROM BRIDGE ON MAR. 24, 1971, AND REMOVED APR. 28, 1971

DECAPODA	NO.
Orconectes propinquus Girard	1

EPHEMEROPTERA	NO.
Stenonema	9
Isonychia sicca	2
Ephemerella	5

TRICHOPTERA	NO.
Helicopsyche	1

COLEOPTERA	NO.
Psephenus	1

DIPTERA	NO.
Tendipedidae	1

GASTROPODA	NO.
Viviparidae	122

COMMON NAMES OF THE PRECEDING ORDERS

DECAPODA - Crayfish, Shrimp
EPHEMEROPTERA - Mayflies
PLECOPTERA - Stoneflies
ODONATA - Dragonflies, Damselflies
HEMIPTERA - Bugs
MEGALOPTERA - Alderflies, Dobsonflies, Fishflies
TRICHOPTERA - Caddis flies
COLEOPTERA - Beetles
DIPTERA - Flies, Mosquitoes, Midges
GASTROPODA - Snails, Limpets

07064000 BLACK RIVER NEAR CORNING, ARK.

LOCATION.--Lat 36°24'07", long 90°32'29", in SW¼NE¼ sec.4, T.20 N., R.5 E., Clay County, at gaging station near left bank on downstream side of bridge on U.S. Highway 62, 2.2 miles east of Corning, 11.9 miles downstream from Cane Creek, and at mile 152.2.

DRAINAGE AREA.--1,749 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1946 to September 1960, October 1965 to September 1966; Chemical and biological analyses: October 1970 to September 1971.
Water temperature: October 1956 to September 1959.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00918 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 12, 1970	18.	-	-	-	-	-	6.5	-	-	-
OCT. 27......	17.	-	-	-	-	-	4.5	-	-	-
NOV. 24......	7.	-	-	-	-	-	6.0	-	-	-
DEC. 7......	8.	0	0	30.4	17.00	5.8	4.0	0.02	0.150	175.
DEC. 28......	5.	-	-	-	-	-	5.0	-	-	-
JAN. 4, 1971	6.	-	-	-	-	-	6.0	-	-	-
JAN. 19......	1.	-	-	-	-	-	6.0	-	-	-
FEB. 2......	2.	100.	50.0	28.8	12.80	3.0	3.0	0.59	0.130	143.
FEB. 16......	4.	-	-	-	-	-	4.0	-	-	-
MAR. 3......	5.	-	-	-	-	-	3.5	-	-	-
MAR. 17......	15.	-	-	-	-	-	4.0	-	-	-
APR. 5......	10.	-	-	-	-	-	6.0	-	-	-
APR. 20......	19.	-	-	-	-	-	6.0	-	-	-
MAY 17......	21.	-	-	-	-	-	3.0	-	-	-
JUNE 2......	24.	-	-	-	-	-	4.0	-	-	-
JUNE 16......	25.	-	-	-	-	-	6.0	-	-	-
JULY 22......	25.	-	-	-	-	-	5.5	-	-	-
AUG. 3......	24.	-	-	-	-	-	3.0	-	-	-
AUG. 16......	28.	-	-	-	-	-	2.5	-	-	-
AUG. 31......	27.	-	-	-	-	-	7.0	-	-	-
SEP. 15......	26.	-	-	-	-	-	5.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 12, 1970	-	-	121.	167.	7.60	-	65.	1.9	8.4
OCT. 27......	-	-	132.	179.	7.80	-	45.	1.6	9.2
NOV. 24......	-	-	121.	157.	7.90	-	25.K	0.9	11.3
DEC. 7......	147.	76.0	132.	211.	8.00	0	25.K	1.9	10.8
DEC. 28......	-	-	96.	172.	7.40	-	25.	2.3	10.6
JAN. 4, 1971	-	-	101.	150.	7.40	-	120.	2.3	10.6
JAN. 19......	-	-	39.	74.	6.80	-	55.	2.7	11.2
FEB. 2......	125.	72.0	119.	173.	6.70	20.	25.K	1.1	12.1
FEB. 16......	-	-	71.	118.	7.00	-	85.	4.4	11.9
MAR. 3......	-	-	81.	147.	7.00	-	80.	1.8	11.0
MAR. 17......	-	-	96.	185.	7.50	-	30.	2.0	10.0
APR. 5......	-	-	127.	236.	8.00	-	45.	1.6	10.2
APR. 20......	-	-	126.	222.	7.80	-	35.	1.8	8.9
MAY 17......	-	-	93.	143.	7.70	-	50.	2.7	9.3
JUNE 2......	-	-	120.	235.	7.90	-	60.	1.6	8.2
JUNE 16......	-	-	136.	294.	7.90	-	80.	3.4	7.8
JULY 22......	-	-	140.	285.	8.30	-	25.	3.2	7.6
AUG. 3......	-	-	135.	267.	8.10	-	40.	0.9	7.3
AUG. 16......	-	-	140.	286.	8.30	-	25.	2.9	8.9
AUG. 31......	-	-	140.	241.	7.90	-	30.	3.6	9.9
SEP. 15......	-	-	147.	207.	8.00	-	60.	1.4	7.9

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCC8 MF/100ML
DEC. 7, 1970	83.	33.	80.
FEB. 2, 1971	55.	23.	10.
AUG. 3......	110.	20.	130.

K Less than.

07068850 CURRENT RIVER NEAR POCAHONTAS, ARK.

LOCATION.--Lat 36°17'53", long 90°51'26", in SE¼SE¼ sec.10, T.19 N., R.2 E., Randolph County, at bridge on U.S. Highway 67, 5.5 miles northeast of Pocahontas.

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1958; Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 12, 1970	17.	-	-	-	-	-	8.0	-	-	-
OCT. 27......	18.	-	-	-	-	-	2.5	-	-	-
NOV. 24......	7.	0	50.0	34.4	19.70	5.7	12.0	0.18	0	194.
DEC. 7......	9.	-	-	-	-	-	3.0	-	-	-
DEC. 28......	6.	-	-	-	-	-	5.5	-	-	-
JAN. 4, 1971	7.	-	-	-	-	-	4.5	-	-	-
JAN. 20......	2.	-	-	-	-	-	4.0	-	-	-
FEB. 2......	5.	-	-	-	-	-	2.5	-	-	-
FEB. 16......	6.	300.	50.0K	24.0	16.80	1.K	3.0	0.78	0.120	128.
MAR. 3......	6.	-	-	-	-	-	4.0	-	-	-
MAR. 17......	14.	-	-	-	-	-	2.5	-	-	-
APR. 5......	11.	-	-	-	-	-	7.5	-	-	-
APR. 20......	19.	-	-	-	-	-	4.0	-	-	-
MAY 18......	19.	100.K	50.0K	33.0	18.70	5.0	2.0	0.14	0.040	150.
JUNE 2......	22.	-	-	-	-	-	2.0	-	-	-
JUNE 15......	26.	-	-	-	-	-	5.0	-	-	-
JULY 22......	26.	-	-	-	-	-	3.5	-	-	-
AUG. 3......	24.	-	-	-	-	-	3.0	-	-	-
AUG. 16......	27.	-	-	22.4	28.90	1.K	4.5	0.04	0.070	191.
SEP. 1......	24.	-	-	-	-	-	6.5	-	-	-
SEP. 15......	25.	-	-	-	-	-	5.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 12, 1970	-	-	162.	213.	8.00	-	25.K	2.1	9.9
OCT. 27......	-	-	152.	206.	8.20	-	25.K	-	9.5
NOV. 24......	167.	86.0	153.	203.	8.50	0	25.K	0.8	12.1
DEC. 7......	-	-	153.	260.	8.10	-	25.K	1.9	12.3
DEC. 28......	-	-	143.	242.	8.00	-	25.K	2.2	12.2
JAN. 4, 1971	-	-	111.	150.	7.70	-	150.	2.6	10.6
JAN. 20......	-	-	103.	170.	7.40	-	25.K	2.1	12.1
FEB. 2......	-	-	148.	224.	7.40	-	25.K	0.7	11.6
FEB. 16......	129.	60.0	135.	200.	8.10	15.	25.K	1.6	11.9
MAR. 3......	-	-	124.	166.	7.90	-	25.K	1.1	10.7
MAR. 17......	-	-	141.	221.	8.20	-	25.K	1.0	10.1
APR. 5......	-	-	160.	280.	8.10	-	25.K	0.5	10.2
APR. 20......	-	-	164.	286.	8.10	-	25.K	1.4	9.0
MAY 18......	159.	82.0	153.	222.	8.20	5.	25.K	1.7	9.1
JUNE 2......	-	-	154.	270.	8.00	-	90.	1.9	8.7
JUNE 15......	-	-	163.	270.	8.00	-	30.	4.8	8.6
JULY 22......	-	-	171.	322.	8.40	-	25.K	2.4	9.6
AUG. 3......	-	-	164.	312.	8.20	-	25.K	3.3	7.9
AUG. 16......	175.	56.0	176.	325.	8.20	0	25.K	2.9	9.5
SEP. 1......	-	-	168.	284.	7.70	-	25.K	2.4	8.8
SEP. 15......	-	-	180.	245.	8.00	-	25.K	1.4	7.6

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
NOV. 24, 1970	7.K	4.K	20.
FEB. 16, 1971	460.	340.	180.
MAY 18......	170.	80.	170.
AUG. 16......	560.	13.	27.

K Less than.

07068867 FOURCHE RIVER NEAR MIDDLEBROOK, ARK.

LOCATION.--Lat 36°28'50", long 90°56'01", Randolph County, at end of private road 0.9 mile west of State Highway 115, 0.7 mile south of Missouri-Arkansas State line, and 1.5 miles north of Middlebrook.

PERIOD OF RECORD.--Chemical and biological analyses: July 1969 to September 1971.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
NOV.												
19...	79	5.0	0	20	45	26	1.9	.9	266	0	4.4	2.5
JAN.												
13...	1040	6.0	0	10	37	21	1.6	1.1	208	0	6.0	3.1
MAR.												
09...	93	5.4	10	20	48	24	1.7	.7	266	0	5.6	3.0
MAY												
04...	60	5.0	20	30	48	26	1.8	.9	280	0	5.2	1.7
JULY												
14...	40	9.1	20	50	55	31	2.6	1.1	324	0	5.2	2.6
SEP.												
08...	9.4	8.7	0	20	52	31	2.4	1.3	296	0	4.4	6.5

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
NOV.												
19...	.0	.2	.13	.00	.000	.000	.09	231	.31	49.3	220	1
JAN.												
13...	.0	2.4	.37	.00	.030	.11	.03	180	.24	505	180	9
MAR.												
09...	.1	1.5	.04	.01	.000	.000	.03	217	.30	54.5	220	0
MAY												
04...	.0	.2	.03	.00	.000	.000	.01	240	.33	38.9	230	0
JULY												
14...	.0	.4	.10	.12	.000	.030	.04	272	.37	29.4	260	0
SEP.												
08...	.0	.4	.26	.00	.010	.020	.03	260	.35	6.60	260	14

DATE	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV.												
19...	220	2	.1	428	7.9	2	9.0	1	9.9	85	40	200
JAN.												
13...	171	2	.1	360	7.6	20	6.0	13	11.0	89	3100	40000
MAR.												
09...	218	2	.1	420	8.2	5	7.5	0	10.3	86	12	24
MAY												
04...	230	2	.1	440	8.1	4	16.0	0	8.2	83	54	76
JULY												
14...	266	2	.1	475	7.9	5	25.5	5	5.1	62	370	370
SEP.												
08...	243	2	.1	525	7.9	5	25.0	3	5.5	66	800	240

07069195 SPRING RIVER AT MAMMOTH SPRING, ARK.

LOCATION.--Lat 36°29'36", long 91°31'57", in SW¼NE¼ sec.8, T.21 N., R.5 W., Fulton County, at St. Louis-San Francisco Railroad bridge at Mammoth Spring.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 12, 1970	17.	-	-	-	-	-	9.5	-	-	-
OCT. 28......	15.	-	-	-	-	-	3.5	-	-	-
NOV. 24......	6.	0	10.0	50.4	32.80	1.K	6.5	0.55	0.650	295.
DEC. 7......	7.	-	-	-	-	-	4.0	-	-	-
DEC. 28......	5.	-	-	-	-	-	3.5	-	-	-
JAN. 4, 1971	6.	-	-	-	-	-	5.0	-	-	-
JAN. 20......	4.	-	-	-	-	-	5.5	-	-	-
FEB. 2......	5.	-	-	-	-	-	3.0	-	-	-
FEB. 16......	9.	100.K	50.0K	25.6	42.30	1.K	3.5	1.22	0.120	226.
MAR. 3......	6.	-	-	-	-	-	2.0	-	-	-
MAR. 17......	11.	-	-	-	-	-	3.0	-	-	-
APR. 5......	10.	-	-	-	-	-	5.5	-	-	-
APR. 20......	19.	-	-	-	-	-	2.5	-	-	-
MAY 18......	19.	100.K	50.0K	46.0	34.00	2.5	1.0	0.29	0.080	232.
JUNE 2......	21.	-	-	-	-	-	3.0	-	-	-
JUNE 15......	25.	-	-	-	-	-	4.0	-	-	-
JULY 22......	26.	-	-	-	-	-	4.5	-	-	-
AUG. 3......	22.	-	-	-	-	-	4.0	-	-	-
AUG. 17......	26.	-	-	18.4	53.90	1.K	3.5	0.12	0.190	293.
SEP. 1......	23.	-	-	-	-	-	6.0	-	-	-
SEP. 15......	24.	-	-	-	-	-	13.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 12, 1970	-	-	266.	328.	8.00	-	25.K	1.7	9.4
OCT. 28......	-	-	175.	230.	8.00	-	60.	3.1	8.4
NOV. 24......	261.	126.0	240.	281.	8.10	0	25.K	2.3	13.8
DEC. 7......	-	-	245.	388.	8.20	-	25.K	1.8	12.8
DEC. 28......	-	-	252.	405.	8.10	-	25.K	1.6	12.2
JAN. 4, 1971	-	-	233.	290.	8.20	-	25.K	0	11.1
JAN. 20......	-	-	228.	345.	8.00	-	25.K	1.8	12.0
FEB. 2......	-	-	242.	261.	8.20	-	25.K	1.2	13.2
FEB. 16......	238.	64.0	239.	351.	7.30	0	25.K	1.7	11.7
MAR. 3......	-	-	83.	143.	7.00	-	55.	2.5	9.5
MAR. 17......	-	-	243.	378.	8.20	-	25.K	3.1	11.7
APR. 5......	-	-	250.	431.	8.30	-	25.K	1.2	11.9
APR. 20......	-	-	252.	424.	8.30	-	25.K	3.4	10.2
MAY 18......	255.	114.0	249.	558.	8.00	0	25.K	2.3	7.6
JUNE 2......	-	-	-	384.	8.00	-	-	-	-
JUNE 15......	-	-	246.	476.	8.10	-	25.K	2.1	10.0
JULY 22......	-	-	259.	476.	8.10	-	25.K	9.9L	9.9
AUG. 3......	-	-	264.	500.	8.00	-	25.K	2.4	6.1
AUG. 17......	268.	46.0	267.	562.	7.90	0	25.K	3.3	7.8
SEP. 1......	-	-	232.	396.	7.70	-	25.K	2.2	8.3
SEP. 15......	-	-	264.	352.	8.00	-	25.K	4.1	10.8

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
NOV. 24, 1970	130.	4.	37.
FEB. 16, 1971	130.	27.	33.
MAY 18......	1100.	300.	280.
AUG. 17......	2600.	260.	220.

K Less than.
L Greater than.

07069260 MYATT CREEK NEAR LANTON, MO.

LOCATION.--Lat 36°31'04", long 91°44'18", in SE¼SW¼ sec.33, T.22 N., R.7 W., Howell County, at bridge on Missouri State Highway 142, 3.5 miles east of Lanton.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 12, 1970	16.	-	-	-	-	-	9.0	-	-	-
OCT. 28......	14.	-	-	-	-	-	2.0	-	-	-
NOV. 24......	5.	0	0	46.4	37.20	1.9	8.0	0.20	0	311.
DEC. 7......	7.	-	-	-	-	-	4.0	-	-	-
DEC. 28......	5.	-	-	-	-	-	3.3	-	-	-
JAN. 4, 1971	5.	-	-	-	-	-	3.0	-	-	-
JAN. 20......	2.	-	-	-	-	-	4.0	-	-	-
FEB. 2......	4.	-	-	-	-	-	2.5	-	-	-
FEB. 17......	6.	100.K	50.0K	30.4	42.80	1.K	4.5	0.28	0	248.
MAR. 3......	6.	-	-	-	-	-	1.5	-	-	-
MAR. 17......	11.	-	-	-	-	-	4.3	-	-	-
APR. 5......	9.	-	-	-	-	-	2.0	-	-	-
APR. 20......	20.	-	-	-	-	-	3.5	-	-	-
MAY 18......	21.	100.K	50.0K	45.0	39.00	4.0	2.0	0.10	0.030	292.
JUNE 2......	21.	-	-	-	-	-	2.0	-	-	-
JUNE 15......	27.	-	-	-	-	-	1.K	-	-	-
JULY 22......	27.	-	-	-	-	-	5.5	-	-	-
AUG. 3......	24.	-	-	-	-	-	1.3	-	-	-
AUG. 17......	27.	-	-	12.8	54.40	1.K	3.5	.1K	0.060	296.
SEP. 1......	25.	-	-	-	-	-	7.0	-	-	-
SEP. 15......	25.	-	-	-	-	-	4.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 12, 1970	-	-	271.	332.	7.90	-	25.K	2.8	9.2
OCT. 28......	-	-	218.	268.	7.90	-	25.K	1.5	8.0
NOV. 24......	269.	116.0	249.	285.	8.20	0	25.K	3.2	17.5
DEC. 7......	-	-	246.	370.	8.40	-	25.K	2.7	13.9
DEC. 28......	-	-	264.	424.	8.20	-	25.K	2.4	12.7
JAN. 4......	-	-	204.	238.	7.90	-	25.K	1.4	12.1
JAN. 20......	-	-	240.	392.	8.00	-	25.K	1.1	12.4
FEB. 2......	-	-	250.	266.	7.90	-	25.K	0.9	13.0
FEB. 17......	252.	76.0	250.	373.	7.80	0	25.K	1.0	10.4
MAR. 3......	-	-	90.	127.	7.00	-	25.K	4.2	9.1
MAR. 17......	-	-	261.	378.	8.10	-	25.K	3.6	10.9
APR. 5......	-	-	272.	459.	8.10	-	25.K	0.8	11.4
APR. 20......	-	-	252.	424.	8.20	-	25.K	2.7	11.0
MAY 18......	271.	112.0	267.	366.	7.90	0	25.K	2.4	8.6
JUNE 2......	-	-	242.	435.	8.00	-	25.K	4.8	8.3
JUNE 15......	-	-	266.	500.	8.00	-	25.K	1.5	8.4
JULY 22......	-	-	263.	476.	8.30	-	25.K	2.6	9.7
AUG. 3......	-	-	260.	488.	8.00	-	25.K	1.7	6.7
AUG. 17......	256.	32.0	217.	453.	8.00	0	25.K	2.8	7.7
SEP. 1......	-	-	244.	395.	7.90	-	25.K	2.9	7.8
SEP. 15......	-	-	258.	347.	8.00	-	25.K	2.1	9.4

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCC8 MF/100ML
NOV. 24, 1970	640.	4.K	44.
FEB. 17, 1971	120.	110.	47.
MAY 18......	580.	93.	270.
AUG. 17......	140.	10.	87.

K Less than.

07069268 SOUTH FORK OF SPRING RIVER NEAR MOKO, ARK.

LOCATION.--Lat 36°26'23", long 91°49'44", in SE¼NW¼ sec.34, T.21 N., R.8 W., Fulton County, at bridge on State Highway 395, 0.2 mile upstream from Mill Creek, and 2 miles south of Moko.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 12, 1970	16.	-	-	-	-	-	7.0	-	-	-
OCT. 28......	15.	-	-	-	-	-	3.5	-	-	-
NOV. 24......	4.	0	0	45.6	29.40	1.0	5.5	0.20	0.070	259.
DEC. 7......	6.	-	-	-	-	-	4.5	-	-	-
DEC. 28......	3.	-	-	-	-	-	3.5	-	-	-
JAN. 4, 1971	4.	-	-	-	-	-	4.5	-	-	-
JAN. 20......	2.	-	-	-	-	-	4.5	-	-	-
FEB. 2......	3.	-	-	-	-	-	3.0	-	-	-
FEB. 17......	6.	100.K	50.0K	28.8	27.90	1.K	2.0	0.74	0	151.
MAR. 3......	6.	-	-	-	-	-	7.0	-	-	-
MAR. 17......	11.	-	-	-	-	-	5.5	-	-	-
APR. 5......	9.	-	-	-	-	-	6.0	-	-	-
APR. 20......	20.	-	-	-	-	-	4.0	-	-	-
MAY 18......	20.	100.K	50.0K	38.0	24.00	3.8	2.0	0.17	0.050	176.
JUNE 2......	21.	-	-	-	-	-	2.0	-	-	-
JUNE 15......	26.	-	-	-	-	-	1.0	-	-	-
JULY 22......	26.	-	-	-	-	-	3.5	-	-	-
AUG. 3......	22.	-	-	-	-	-	2.0	-	-	-
AUG. 17......	27.	-	-	10.4	51.50	1.K	3.2	0	0.060	243.
SEP. 1......	25.	-	-	-	-	-	3.0	-	-	-
SEP. 15......	23.	-	-	-	-	-	9.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 12, 1970	-	-	247.	347.	8.00	-	25.K	1.7	8.9
OCT. 28......	-	-	116.	164.	7.80	-	45.	2.5	8.9
NOV. 24......	235.	114.0	211.	242.	8.20	0	25.K	2.0	12.9
DEC. 7......	-	-	210.	333.	8.20	-	25.K	1.2	11.6
DEC. 28......	-	-	211.	340.	8.20	-	25.K	2.3	12.2
JAN. 4, 1971	-	-	92.	125.	7.50	-	60.	2.8	11.1
JAN. 20......	-	-	167.	275.	8.00	-	25.K	1.3	12.8
FEB. 2......	-	-	204.	307.	8.10	-	25.K	1.4	12.7
FEB. 17......	187.	72.0	184.	262.	7.50	5.	25.K	1.0	11.1
MAR. 3......	-	-	107.	176.	7.40	-	40.	2.0	10.2
MAR. 17......	-	-	186.	306.	8.20	-	25.K	2.3	10.3
APR. 5......	-	-	233.	392.	8.20	-	25.K	1.2	11.0
APR. 20......	-	-	251.	394.	8.00	-	25.K	5.0	8.7
MAY 18......	193.	96.0	198.	290.	8.00	0	25.K	1.5	7.4
JUNE 2......	-	-	189.	333.	8.10	-	25.K	1.4	8.4
JUNE 15......	-	-	233.	455.	8.10	-	25.K	4.2	7.7
JULY 22......	-	-	209.	384.	8.30	-	25.K	5.5	10.4
AUG. 3......	-	-	199.	369.	8.20	-	25.K	2.4	6.6
AUG. 17......	238.	26.0	235.	384.	8.30	0	25.K	2.9	8.8
SEP. 1......	-	-	216.	367.	7.80	-	25.K	2.0	7.9
SEP. 15......	-	-	238.	313.	8.20	-	25.K	3.9	7.4

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
NOV. 24, 1970	60.	10.	93.
FEB. 17, 1971	87.	40.	120.
MAY 18......	280.	120.	160.
AUG. 17......	1000.	23.	37.

K Less than.

07069500 SPRING RIVER AT IMBODEN, ARK.

LOCATION.--Lat 36°12'19", long 91°10'19", in SE¼NE¼ sec.15, T.18 N., R.2 W., Randolph County, at gaging station near left bank on downstream side of bridge on U.S. Highway 62 at Imboden, 1.8 miles upstream from Harding Creek, 3.9 miles downstream from Janes Creek, 8.2 miles upstream from Eleven Point River, and at mile 12.1.

DRAINAGE AREA.--1,162 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1953 to September 1962, October 1967 to September 1971. Water temperature: December 1955 to September 1961.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	TOTAL MERCURY (HG) (UG/L)
NOV. 03...	1330	11.5	400	1.2
DEC. 07...	949	8.5	--	<.5
JAN. 11...	1610	5.5	440	--
FEB. 15...	2470	6.5	387	--
MAR. 22...	1060	11.0	402	--
APR. 25...	841	18.5	461	--
JULY 12...	435	27.0	446	--
AUG. 09...	402	26.0	--	--

ANALYSIS OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE 23...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE 23...	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE 23...	<.20	2.4	1.5	<.20	<.20	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)
JUNE 23...	<.20	<1.0	<.20	<.20	<.20	<.40	<.30	<.40

< Less than.

07071995 ELEVEN POINT RIVER AT DALTON, ARK.

LOCATION.--Lat 36°25'07", long 91°08'19", in SE¼SW¼ sec.36, T.21 N., R.2 W., Randolph County, at bridge on State Highway 93 at Dalton.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 12, 1970	16.	-	-	-	-	-	7.9	-	-	-
OCT. 27.......	17.	-	-	-	-	-	3.0	-	-	-
NOV. 24.......	7.	0	10.0	39.2	23.60	1.9	4.0	0.43	0.370	233.
DEC. 7.......	8.	-	-	-	-	-	3.0	-	-	-
DEC. 28.......	8.	-	-	-	-	-	6.0	-	-	-
JAN. 4, 1971	8.	-	-	-	-	-	5.0	-	-	-
JAN. 20.......	9.	-	-	-	-	-	3.0	-	-	-
FEB. 2.......	6.	-	-	-	-	-	1.0	-	-	-
FEB. 16.......	9.	100.K	90.0K	24.8	28.40	1.K	3.0	0.77	0.050	191.
MAR. 3.......	7.	-	-	-	-	-	3.0	-	-	-
MAR. 17.......	14.	-	-	-	-	-	4.0	-	-	-
APR. 5.......	10.	-	-	-	-	-	3.0	-	-	-
APR. 20.......	18.	-	-	-	-	-	3.5	-	-	-
MAY 18.......	18.	100.K	90.0K	42.0	21.00	1.2	3.0	0.40	0.080	170.
JUNE 2.......	20.	-	-	-	-	-	3.0	-	-	-
JUNE 15.......	23.	-	-	-	-	-	5.3	-	-	-
JULY 22.......	28.	-	-	-	-	-	18.5	-	-	-
AUG. 3.......	20.	-	-	-	-	-	3.0	-	-	-
AUG. 17.......	23.	-	-	16.8	41.90	1.K	10.5	0.28	0.050	223.
SEP. 1.......	22.	-	-	-	-	-	4.5	-	-	-
SEP. 15.......	22.	-	-	-	-	-	4.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 12, 1970	-	-	201.	274.	8.10	-	25.K	1.1	9.8
OCT. 27.......	-	-	177.	233.	8.30	-	25.K	1.7	9.4
NOV. 24.......	193.	98.0	177.	217.	8.30	0	25.K	0.1	11.9
DEC. 7.......	-	-	180.	263.	8.10	-	25.K	0.6	11.7
DEC. 28.......	-	-	194.	326.	8.10	-	25.K	2.2	11.6
JAN. 4, 1971	-	-	167.	222.	7.90	-	25.K	1.5	10.8
JAN. 20.......	-	-	173.	207.	7.90	-	25.K	1.1	11.6
FEB. 2.......	-	-	172.	259.	7.70	-	25.K	0.7	11.8
FEB. 16.......	179.	62.0	188.	274.	7.30	0	25.K	0.7	11.6
MAR. 3.......	-	-	-	-	6.90	-	25.K	2.1	12.5
MAR. 17.......	-	-	182.	281.	8.20	-	25.K	4.2	10.8
APR. 5.......	-	-	202.	344.	8.20	-	25.K	4.2	10.6
APR. 20.......	-	-	197.	340.	8.10	-	25.K	1.9	6.9
MAY 18.......	191.	104.0	191.	244.	8.10	0	25.K	1.0	8.5
JUNE 2.......	-	-	178.	323.	8.10	-	25.K	4.3	9.3
JUNE 15.......	-	-	188.	373.	8.10	-	25.K	1.3	9.5
JULY 22.......	-	-	207.	385.	8.30	-	25.K	9.2	9.4
AUG. 3.......	-	-	219.	400.	8.30	-	25.K	3.7	8.2
AUG. 17.......	213.	42.0	-	399.	8.20	0	25.K	6.4	8.9
SEP. 1.......	-	-	209.	336.	7.80	-	25.K	1.6	8.6
SEP. 15.......	-	-	213.	297.	8.20	-	25.K	1.3	9.6

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCA MF/100ML
NOV. 24, 1970	4.	4.0	37.
FEB. 16, 1971	7.	3.K	3.
MAY 18.......	130.	34.	57.
AUG. 17.......	400.	4.K	40.

K Less than.

07072500 BLACK RIVER AT BLACK ROCK, ARK.

LOCATION.--Lat 36°06'15", long 91°05'50", in NW¼ sec.21, T.17 N., R.1 W., Lawrence County, at gaging station on right bank 900 ft downstream from St. Louis-San Francisco Railroad bridge at Black Rock, 3.7 miles downstream from Spring River, and at mile 68.3.

DRAINAGE AREA.--7,323 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1945 to September 1946, October 1952 to September 1953, October 1967 to September 1971.
Water temperature: October 1945 to September 1946, October 1952 to September 1953.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
NOV.										
03...	7510	7.6	0	20	0	6	3	--	6	--
DEC.										
07...	5060	--	--	--	--	--	--	--	--	--
JAN.										
11...	8600	--	10	10	0	9	0	6	0	0
FEB.										
15...	11400	--	--	--	--	--	--	--	--	--
MAR.										
22...	7010	--	--	--	--	--	--	--	--	--
APR.										
25...	5320	6.7	20	20	1	0	5	4	7	0
JUNE										
01...	5040	--	--	--	--	--	--	--	--	--
JULY										
12...	2930	--	10	10	0	0	0	3	0	0
AUG.										
09...	3030	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL AMMONIA ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)
NOV.										
03...	4.8	2.1	.0	.1	.30	.040	186	.25	3730	172
DEC.										
07...	2.8	--	--	1.4	.04	.030	--	--	--	--
JAN.										
11...	5.6	--	--	3.7	.19	.12	--	--	--	--
FEB.										
15...	5.2	--	--	2.5	.10	.090	--	--	--	--
MAR.										
22...	--	--	--	--	--	--	--	--	--	--
APR.										
25...	7.6	1.8	.1	1.2	.03	.020	195	.27	2800	180
JUNE										
01...	--	--	--	1.1	.25	.000	--	--	--	--
JULY										
12...	4.4	--	--	.4	.08	.020	--	--	--	--
AUG.										
09...	--	--	--	1.8	.34	.17	--	--	--	--

FIELD ANALYSES

DATE	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
NOV.					
03...	11.5	356	7.8	10.8	99
DEC.					
07...	6.5	270	7.6	10.8	88
JAN.					
11...	4.5	277	8.2	12.0	92
FEB.					
15...	4.5	268	8.1	11.8	91
MAR.					
02...	--	310	8.1	--	--
22...	11.0	318	8.2	10.5	95
APR.					
25...	18.0	336	7.9	8.6	90
JUNE					
01...	20.0	317	8.0	8.4	91
JULY					
12...	27.5	325	8.0	7.6	95
AUG.					
09...	25.0	352	8.0	7.9	94

07072500 BLACK RIVER AT BLACK ROCK, ARK.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV. 03...	12	0	10	2.1	36	20	1.7	1.4	204	0
DEC. 07...	--	--	--	3.3	--	--	--	--	--	--
JAN. 11...	6	--	30	--	--	--	--	--	--	--
FEB. 15...	--	--	--	--	--	--	--	--	--	--
MAR. 22...	--	--	--	--	--	--	--	--	--	--
APR. 25...	7	0	20	--	37	21	2.5	1.3	216	0
JUNE 01...	--	--	--	--	--	--	--	--	--	--
JULY 12...	3	0	0	--	--	--	--	--	--	--
AUG. 09...	--	--	--	--	--	--	--	--	--	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
NOV. 03...	5	167	2	.1	323	7.8	2	11	5
DEC. 07...	--	--	--	--	338	7.5	5	62	--
JAN. 11...	--	--	--	--	278	8.1	70	45	12
FEB. 15...	--	--	--	--	265	7.9	33	28	3
MAR. 22...	--	--	--	--	--	--	--	--	--
APR. 25...	2	177	3	.1	343	8.2	1	15	4
JUNE 01...	--	--	--	--	313	8.1	5	30	0
JULY 12...	--	--	--	--	353	8.0	3	20	0
AUG. 09...	--	--	--	--	274	7.8	2	60	3

ANALYSIS OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE 23...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE 23...	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE 23...	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)
JUNE 23...	<.20	<1.0	<.20	<.20	<.20	<.30	<.10	<.10

< Less than.

07074000 STRAWBERRY RIVER NEAR POUGHKEEPSIE, ARK.

LOCATION.--Lat 36°06'37", long 91°26'59", in SE¼NW¼ sec.19, T.17 N., R.4 W., Sharp County, at gaging station on right bank on downstream side of bridge on State Highway 58, 0.5 mile downstream from Hurricane Creek, 2.5 miles northeast of Poughkeepsie, and at mile 35.9.

DRAINAGE AREA.--476 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1953 to September 1958.
Chemical and biological analyses: January to August 1971.
Water temperature: October 1956 to September 1958.

CHEMICAL AND BIOLOGICAL ANALYSES, JANUARY TO AUGUST 1971

DATE	DISCHARGE (CFS)	NITRATE (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
JAN. 13...	1350	1.2	--	354	8.1	1.0
FEB. 18...	688	1.3	--	325	8.1	1.0
MAR. 23...	284	.3	.10	391	8.4	1.0
APR. 27...	166	.3	.050	404	8.3	1.0
MAY 25...	381	.2	.000	343	7.9	1.6
JUNE 24...	79	.2	.000	398	8.2	4.6
JULY 20...	65	.2	.000	394	8.0	1.4
AUG. 24...	113	.2	--	345	6.9	1.8

FIELD ANALYSES

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
JAN. 13...	7.0	380	7.9	11.0	91	>400	430
FEB. 18...	11.5	--	--	10.6	97	E25	E13
MAR. 23...	12.0	378	7.7	11.4	106	E40	E2
APR. 27...	20.5	--	8.3	8.6	96	142	74
MAY 25...	19.0	370	7.4	7.7	82	2000	700
JUNE 24...	27.0	400	8.2	6.3	79	240	E25
JULY 20...	26.0	400	--	7.6	93	150	E20
AUG. 24...	26.0	--	7.8	7.6	93	E360	150

> Greater than.
E Estimated.

07074849 WHITE RIVER NEAR AUGUSTA, ARK.

LOCATION.--Lat 35°18', long 91°24', sec.26, T.8 N., R.4 W., Woodruff County, temperature recorder on right bank, 0.9 mile upstream from bridge on U.S. Highway 64, 2 miles west of Augusta, 0.7 mile upstream from Taylor Bay, and 24.4 miles upstream from Little Red River.

DRAINAGE AREA.--20,507 sq mi, approximately.

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1969, October 1970 to September 1971.

EXTREMES.--1970-71 :
Water temperatures: Maximum, 21.5°C July 11, 12; minimum, freezing point on several days during January and February.

Period of record:
Water temperatures: Maximum, 27.0°C on several days in 1967, 1968, and 1969; minimum, freezing point on several days during January and February 1971.

REMARKS.--Flow regulated by upstream reservoirs. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	12.0	9.5	9.0	9.0	8.5	2.0	1.5	.5	.5	4.0	4.0
2	13.0	12.0	9.0	8.5	9.0	9.0	2.0	1.5	.5	.5	4.0	4.0
3	13.5	13.0	8.5	8.5	9.0	9.0	4.0	1.5	.5	.5	3.5	3.5
4	13.5	13.5	8.5	8.5	9.0	9.0	4.0	--	1.5	.5	3.5	2.0
5	14.0	13.5	8.5	8.0	9.0	9.0	--	2.0	2.0	1.5	2.0	1.5
6	14.0	14.0	8.0	7.0	8.5	7.0	2.0	1.0	2.0	2.0	1.5	1.5
7	14.5	14.0	7.0	7.0	7.0	6.0	.5	.0	3.0	3.0	1.5	1.5
8	14.0	14.0	7.0	7.0	6.0	5.5	--	--	3.0	2.0	1.5	1.5
9	14.5	14.0	8.0	7.0	5.5	4.5	--	--	2.0	2.0	2.0	1.5
10	14.5	14.5	8.0	8.0	4.5	4.5	--	--	3.0	2.0	3.0	2.0
11	14.5	14.0	8.0	8.0	5.5	4.5	--	--	3.0	1.5	3.0	3.0
12	14.0	13.5	8.0	7.0	5.5	5.5	--	--	4.5	2.0	3.5	3.0
13	14.0	13.5	7.0	7.0	5.5	5.0	--	--	3.0	.0	4.5	3.5
14	14.5	14.0	7.0	7.0	5.0	4.5	--	--	.0	.0	5.0	4.0
15	14.5	13.5	7.0	6.5	4.5	3.5	--	--	.0	.0	5.5	5.0
16	13.0	11.0	6.5	6.0	3.5	3.0	2.0	1.5	.0	.0	6.0	5.5
17	11.0	10.5	6.5	6.0	3.0	3.0	1.5	1.0	.0	.0	6.5	6.0
18	10.0	9.5	6.5	6.0	3.0	3.0	1.0	.5	.5	.0	7.0	6.5
19	9.5	9.0	7.0	6.0	4.0	3.0	.5	.0	3.0	.5	7.0	6.0
20	9.0	9.0	8.0	7.0	4.0	4.0	.0	.0	3.0	2.0	6.0	5.5
21	9.0	9.0	8.0	8.0	4.5	4.0	.0	.0	4.0	3.0	5.5	5.0
22	9.0	9.0	8.0	8.0	4.0	3.5	.0	.0	4.0	4.0	5.5	5.0
23	9.0	9.0	8.0	8.0	--	--	.0	.0	4.0	3.0	6.5	5.5
24	9.0	9.0	8.5	8.0	--	--	.5	.0	3.0	2.0	6.5	6.5
25	9.5	9.0	8.0	7.0	--	--	.5	.5	2.0	1.5	6.5	5.5
26	10.0	9.5	8.0	5.5	3.0	2.0	.5	.5	2.0	1.5	5.5	5.5
27	11.0	10.0	6.0	5.5	2.0	1.5	.5	.0	3.5	2.0	5.5	5.0
28	11.5	11.0	8.0	6.0	1.5	.5	.0	.0	4.0	3.5	5.5	5.0
29	11.0	10.0	8.5	8.0	.5	.5	.0	.0	--	--	6.5	5.5
30	10.0	9.5	8.5	8.5	1.0	.5	.5	.0	--	--	7.0	6.5
31	9.5	9.5	--	--	1.5	1.0	1.0	.5	--	--	8.0	7.0
AVG	12.0	11.5	8.0	7.0	5.0	4.5	--	--	2.0	1.5	5.0	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	8.0	12.0	11.5	13.0	13.0	14.5	14.0	14.5	14.5	14.5	13.5
2	8.5	8.0	11.5	11.5	13.0	12.0	14.5	14.5	14.5	14.0	13.5	13.5
3	8.5	8.5	11.5	11.0	13.5	13.0	14.5	14.5	14.0	13.5	14.0	13.5
4	8.5	8.5	11.5	11.0	14.5	13.5	14.5	14.0	13.5	13.0	14.5	13.5
5	8.5	8.5	11.0	11.0	14.5	14.5	14.0	13.5	13.0	13.0	16.0	15.0
6	8.5	8.5	11.5	11.0	15.0	14.5	13.5	13.0	--	--	16.0	16.0
7	8.5	8.5	11.5	11.0	15.5	15.0	13.0	11.5	--	--	16.0	15.5
8	8.5	8.5	11.5	11.5	16.0	15.5	11.5	11.5	--	--	15.5	14.5
9	8.5	8.5	11.5	11.5	15.5	14.0	14.0	11.5	--	--	16.5	14.5
10	8.5	8.5	11.5	11.5	14.0	14.0	18.5	14.0	--	--	19.5	16.5
11	9.0	8.5	11.5	11.5	14.0	13.5	21.5	18.5	--	--	19.5	16.5
12	9.5	9.0	--	--	13.5	13.0	21.5	19.0	--	--	16.5	15.5
13	9.5	9.5	--	--	13.5	13.0	19.0	15.5	--	--	15.5	15.0
14	10.0	9.5	--	--	14.0	13.5	15.5	14.0	18.5	17.0	15.5	15.5
15	10.0	10.0	--	--	14.0	13.5	18.0	14.5	17.0	15.0	16.0	15.5
16	10.5	10.0	13.5	13.0	13.5	13.0	20.0	18.0	15.5	15.0	16.0	15.0
17	11.0	10.5	13.5	13.5	14.0	13.0	20.0	19.0	15.5	14.5	15.0	15.0
18	11.0	11.0	13.5	13.0	16.0	14.0	19.0	18.0	14.5	13.5	15.0	14.5
19	11.0	11.0	14.5	13.0	16.5	16.0	18.0	16.5	14.5	13.5	14.5	14.0
20	11.0	11.0	15.0	14.5	17.0	16.5	16.5	15.5	13.5	13.5	14.0	13.5
21	11.0	11.0	15.0	14.5	17.0	17.0	15.5	14.5	15.5	13.5	13.5	13.5
22	--	--	14.5	13.5	17.0	15.0	14.5	13.5	18.5	15.5	13.5	13.0
23	--	--	13.5	13.0	15.0	13.5	13.5	13.5	18.5	18.0	13.0	13.0
24	11.5	11.5	13.0	13.0	13.5	13.0	13.5	13.5	18.0	16.5	--	--
25	11.5	11.0	13.0	12.0	14.0	13.0	13.5	13.5	16.5	16.0	--	--
26	11.0	11.0	13.5	13.0	18.0	14.0	13.5	13.5	18.5	16.5	--	--
27	11.0	11.0	14.5	13.5	20.0	18.0	13.5	13.5	18.5	18.5	--	--
28	11.5	11.0	14.5	14.0	20.0	18.0	13.5	13.5	18.5	16.5	--	--
29	12.0	11.5	14.0	13.0	18.0	16.0	13.5	13.5	17.0	16.5	--	--
30	12.0	12.0	13.0	13.0	16.0	14.0	14.0	13.5	16.5	16.0	--	--
31	--	--	13.0	13.0	--	--	14.5	14.0	16.0	14.5	--	--
AVG	10.0	10.0	13.0	12.5	15.5	14.5	15.5	14.5	--	--	15.5	14.5

07075900 GREERS FERRY LAKE NEAR HEBER SPRINGS, ARK.

LOCATION.--Lat 35°31'15", long 91°59'42", in SE¼ sec.6, T.10 N., R.9 W., Cleburne County, on State Highway 25 at Greers Ferry Dam on Little Red River, 2.5 miles northeast of Heber Springs, 5.5 miles upstream from Canoe Creek, and at mile 79.0.

DRAINAGE AREA.--1,146 sq mi.

PERIOD OF RECORD.--Dissolved oxygen, water temperature, and specific conductance: October 1970 to September 1971.

REMARKS.--Records furnished (for log boom location about 1,000 ft upstream from dam) by Corps of Engineers, Little Rock, Ark.

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	NOVEMBER 30			DECEMBER 17			JANUARY 14		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
10	10.7	13.0	49	11.9	11.7	56	10.2	9.0	58
20	10.7	12.5	50	11.9	11.8	58	10.0	9.0	58
30	10.7	12.4	51	11.9	11.6	60	10.2	9.0	58
40	10.7	12.2	53	11.5	11.9	60	10.2	9.0	60
50	10.7	12.2	53	11.5	11.9	61	10.4	8.9	60
60	10.5	12.2	53	11.2	11.9	62	10.4	8.8	60
70	10.5	12.2	53	10.9	11.8	64	10.6	8.9	64
80	10.2	12.1	54	10.6	11.8	65	10.5	8.9	64
90	9.5	12.0	55	10.2	11.6	67	10.5	8.8	65
100	7.4	11.6	57	8.4	11.5	70	10.7	8.8	65
110	4.4	10.4	60	5.5	11.0	72	11.0	8.5	66
120	3.2	9.4	64	.8	10.5	78	11.0	8.5	66
130	2.1	8.8	70	1.0	9.5	85	11.0	8.4	67
140	1.2	8.5	71	1.4	9.1	86	11.0	8.4	67
150	.9	8.4	76	2.1	9.1	86	11.2	8.2	69
160	1.6	8.3	75	2.8	9.0	90	11.2	8.1	69

	MARCH 4			MARCH 26			MAY 3		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
10	10.2	7.4	49	9.6	8.0	63	8.9	18.5	61
20	10.5	7.2	48	9.6	8.0	65	8.3	18.0	64
30	10.5	7.2	48	9.4	8.0	67	8.1	12.1	70
40	10.5	7.2	48	9.4	8.0	67	8.6	10.0	73
50	10.8	7.2	48	9.4	8.0	67	8.8	9.1	75
60	10.5	7.2	48	9.4	8.0	67	8.7	9.0	75
70	10.5	7.1	48	9.1	7.5	71	8.6	8.4	77
80	10.5	7.0	47	8.9	7.5	70	8.5	8.2	78
90	10.5	6.8	46	8.9	7.0	73	8.5	7.5	80
100	10.0	6.5	44	9.1	6.5	75	8.5	7.2	81
110	10.0	6.2	43	8.9	6.4	75	8.7	6.9	80
120	10.0	6.2	43	8.4	6.6	74	8.5	6.9	80
130	10.0	6.1	43	9.1	6.5	69	8.6	6.8	82
140	9.7	6.0	42	9.1	6.5	69	8.6	6.8	76
150	9.2	6.0	42	9.1	6.5	69	8.8	6.8	84
160	8.9	6.0	42	9.5	6.5	69	9.0	6.8	83

	JUNE 22		
DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
10	7.5	29.0	60
20	9.8	25.0	61
30	10.4	14.0	71
40	11.3	10.0	79
50	11.1	9.1	81
60	10.9	9.0	81
70	10.3	8.5	84
80	9.4	8.1	85
90	9.7	7.8	86
100	9.4	7.8	86
110	9.4	7.5	87
120	8.8	7.2	88
130	8.8	7.2	88
140	8.8	7.2	87
150	9.1	7.4	90
160	9.1	7.6	95
170	11.2	7.2	96

07076000 LITTLE RED RIVER NEAR HEBER SPRINGS, ARK.

LOCATION.--Lat 35°31'02", long 91°59'55", in NE¼ sec.7, T.10 N., R.9 W., Cleburne County, at gaging station on right bank 1,600 ft downstream from Greers Ferry Dam, 3 miles northeast of Heber Springs, and at mile 78.8.

DRAINAGE AREA.--1,146 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1949 to September 1952, October 1954 to September 1971. Water temperature: November 1949 to September 1952, October 1967 to September 1971.

REMARKS.--Flow completely regulated since Mar. 30, 1962, by Greers Ferry Lake. Records furnished by Corps of Engineers, Little Rock, Ark.

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 to SEPTEMBER 1971

	JANUARY			FEBRUARY			MARCH		
DAY	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
1	--	--	--	11.0	8.0	37	12.2	6.9	50
2	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--
4	9.8	10.0	48	10.8	7.5	38	11.6	6.4	39
5	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--
7	9.6	9.5	40	--	--	--	--	--	--
8	--	--	--	--	--	--	11.9	6.7	45
9	--	--	--	11.7	7.0	51	--	--	--
10	--	--	--	--	--	--	--	--	--
11	10.2	8.9	38	11.8	6.7	52	11.6	6.9	46
12	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--
14	10.2	8.4	48	--	--	--	--	--	--
15	--	--	--	--	--	--	10.8	6.7	52
16	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--
18	10.2	8.3	49	11.2	6.5	47	--	--	--
19	--	--	--	--	--	--	11.4	7.4	52
20	--	--	--	--	--	--	--	--	--
21	10.2	8.2	49	--	--	--	--	--	--
22	--	--	--	11.9	6.4	52	10.7	7.0	48
23	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--
25	10.7	8.0	39	--	--	--	10.7	7.0	52
26	--	--	--	12.0	6.5	49	--	--	--
27	--	--	--	--	--	--	--	--	--
28	11.2	8.0	42	--	--	--	--	--	--
29	--	--	--	--	--	--	10.5	7.0	53
30	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--

	APRIL			MAY			JUNE		
DAY	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
1	11.6	7.1	52	--	--	--	10.0	7.4	53
2	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	10.0	7.3	53
4	--	--	--	--	--	--	--	--	--
5	10.8	7.0	46	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--
8	11.3	7.1	53	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	9.7	7.7	52
11	--	--	--	--	--	--	--	--	--
12	11.9	7.0	53	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	9.7	7.3	53
15	--	--	--	--	--	--	--	--	--
16	10.3	7.1	51	--	--	--	--	--	--
17	--	--	--	--	--	--	8.7	7.5	53
18	--	--	--	--	--	--	--	--	--
19	10.0	7.1	51	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	10.4	7.4	52
22	10.0	7.1	53	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	11.0	7.5	53
25	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	9.7	7.3	53
29	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--

07076000 LITTLE RED RIVER NEAR HEBER SPRINGS, ARK.--Continued

DISSOLVED OXYGEN, WATER TEMPERATURE, AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JULY			AUGUST			SEPTEMBER		
DAY	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DIS-SOLVED OXYGEN (MG/L)	TEMP. (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
1	8.6	7.6	53	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--
6	8.7	7.7	52	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--
8	8.8	7.8	51	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--
12	9.0	7.7	52	--	--	--	--	--	--
13	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--
15	9.3	7.8	50	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	--	--
19	8.6	7.7	53	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--
22	9.6	7.7	50	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--

07076200 LITTLE RED RIVER NEAR WILBURN, ARK.

LOCATION.--Lat 35°29'33", long 91°58'21", in SW¼SW¼ sec.16, T.10 N., R.9 W., Cleburne County, temperature recorder just upstream from bridge on State Highway 110, 4 miles southwest of Wilburn.

PERIOD OF RECORD.--Water temperatures: April 1968 to September 1970.

EXTREMES.--1970-71:
Water temperatures: Maximum, 19.5°C June 7; minimum, 3.0°C Feb. 14.

Period of record:
Water temperatures: Maximum, 19.5°C June 7, 1971; minimum, 3.0°C Feb. 14, 1971.

REMARKS.--Flow regulated by upstream reservoir. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	8.5	10.0	9.0	10.0	10.0	9.0	8.0	6.0	4.5	7.0	5.5
2	11.5	9.0	9.5	8.5	10.0	10.0	8.5	7.0	5.5	5.0	5.5	5.0
3	10.5	8.5	9.0	8.5	10.5	10.0	8.5	8.0	6.0	5.0	5.5	4.5
4	11.0	10.0	9.0	8.5	10.0	9.0	8.5	6.5	6.5	5.5	6.0	4.5
5	11.0	8.5	10.0	8.5	9.5	9.0	8.0	6.0	6.0	4.5	6.0	4.5
6	9.5	8.5	10.0	8.5	9.5	8.5	7.0	5.5	6.0	5.0	6.0	5.5
7	9.0	8.5	10.0	8.5	9.5	7.0	6.5	5.5	6.0	5.0	6.0	5.0
8	10.0	8.5	10.0	9.0	9.5	8.5	8.0	5.5	5.5	4.5	6.0	5.0
9	9.0	8.5	10.5	9.5	10.0	9.5	7.0	5.5	5.0	3.5	6.0	5.0
10	9.5	8.0	10.5	9.0	10.5	9.5	6.5	6.0	5.5	3.5	6.5	5.5
11	10.0	9.0	9.5	8.5	9.5	9.0	8.0	6.5	5.5	4.5	6.5	5.0
12	11.5	9.5	9.5	9.0	9.0	8.0	7.0	7.0	5.5	4.5	7.0	5.5
13	9.5	9.0	9.5	9.0	8.0	6.5	8.0	7.0	5.0	3.5	8.5	5.5
14	11.5	9.5	9.0	9.0	9.0	6.0	8.0	7.0	5.5	3.0	10.0	8.0
15	11.0	9.0	9.0	7.0	9.0	8.5	7.0	6.0	5.5	4.5	11.0	7.0
16	10.5	9.0	9.5	6.5	9.0	8.5	7.0	6.0	5.0	4.5	9.0	6.5
17	9.5	8.0	9.5	8.5	9.5	8.5	7.0	6.0	6.0	5.0	8.0	6.0
18	10.0	9.0	9.5	8.5	9.0	8.0	7.0	6.5	6.0	5.5	6.0	5.5
19	10.5	10.0	9.5	8.5	9.5	9.0	6.5	5.5	7.0	5.5	6.5	5.0
20	10.5	9.5	10.0	9.0	9.0	8.5	6.5	5.0	6.5	5.0	8.0	5.5
21	10.0	9.5	9.5	8.5	9.0	8.5	6.5	5.5	7.0	6.5	8.0	6.5
22	10.5	9.5	10.0	9.0	9.5	9.0	6.5	6.0	6.5	4.5	9.5	8.0
23	10.0	9.5	9.0	8.5	9.5	8.5	7.0	6.0	6.0	4.5	8.5	6.0
24	10.5	9.5	9.5	8.5	9.0	7.0	7.0	6.5	6.0	4.5	6.5	5.0
25	11.5	10.0	9.5	8.5	8.5	6.5	7.0	6.5	6.5	5.5	5.5	4.5
26	12.0	9.0	9.5	9.5	8.0	5.0	7.0	6.0	6.5	5.5	6.5	5.0
27	13.5	9.0	10.0	9.5	8.5	7.0	6.5	5.5	6.5	5.0	8.5	6.0
28	10.0	9.0	10.0	9.5	9.5	8.0	6.5	5.0	7.0	6.5	9.5	8.5
29	9.5	8.0	10.5	9.5	9.5	8.5	7.0	5.5	--	--	10.0	7.0
30	9.5	8.0	10.5	9.5	8.5	8.0	6.5	6.0	--	--	8.5	6.5
31	9.5	8.0	--	--	9.0	8.0	6.5	5.5	--	--	8.5	7.0
AVG	10.5	9.0	9.5	8.5	9.5	8.0	7.0	6.0	6.0	5.0	7.5	6.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	11.5	9.5	17.0	13.0	11.0	8.5	15.5	14.0	11.0	9.0
2	9.0	6.5	14.5	11.5	14.0	11.0	13.5	10.0	15.5	14.5	11.0	9.0
3	9.0	6.5	16.0	12.0	13.5	10.5	14.5	13.0	18.5	11.5	11.5	9.0
4	11.0	8.5	12.0	10.0	12.0	8.0	16.0	14.5	--	--	12.0	9.0
5	10.5	8.5	12.0	8.5	11.0	8.0	16.0	15.0	--	--	13.0	10.5
6	8.5	6.0	9.0	8.5	15.5	11.0	18.0	13.0	--	--	15.0	11.0
7	8.5	5.5	14.0	9.0	19.5	15.5	13.5	9.0	--	--	13.0	9.5
8	9.5	6.5	12.0	11.0	18.0	14.5	11.5	8.5	--	--	11.5	9.0
9	10.0	9.0	13.0	11.5	17.0	16.5	11.5	8.5	--	--	11.0	8.5
10	10.0	8.0	14.5	13.0	18.0	12.0	11.5	9.0	--	--	10.0	8.5
11	13.0	9.5	14.5	10.0	13.5	10.5	15.5	11.0	--	--	11.5	8.5
12	15.0	12.0	10.0	9.0	14.0	10.5	16.0	9.5	--	--	14.0	10.5
13	14.5	4.5	13.5	10.0	14.0	11.0	12.0	8.5	13.0	9.5	14.0	9.0
14	6.0	4.0	12.0	9.5	14.0	11.0	11.5	8.5	11.5	9.0	11.5	8.5
15	9.0	6.0	10.5	8.5	14.0	10.0	13.0	8.5	14.0	11.0	11.0	9.0
16	9.0	6.5	15.0	11.0	12.0	9.0	12.0	8.5	14.5	13.0	13.0	10.0
17	9.0	6.5	18.5	13.0	12.0	9.0	12.0	8.0	14.0	10.0	13.5	12.0
18	11.0	9.0	12.0	10.0	11.5	8.0	13.5	10.5	11.5	9.5	13.5	12.0
19	14.0	8.0	14.5	14.5	12.0	8.0	13.0	11.0	11.5	8.5	13.5	12.0
20	8.5	8.0	11.0	8.0	14.0	10.0	13.5	11.0	12.0	8.5	13.5	10.0
21	11.5	8.5	12.0	9.5	13.5	8.0	15.0	12.0	12.0	9.0	11.0	8.0
22	9.5	6.5	12.0	10.5	11.5	8.0	12.0	10.0	13.0	10.0	9.0	8.0
23	11.0	9.5	14.5	11.0	12.0	8.5	12.0	8.5	15.5	8.5	10.0	8.0
24	13.0	10.0	16.0	9.5	11.5	8.0	10.5	8.5	12.0	8.5	10.0	8.0
25	14.5	12.0	11.0	8.0	12.0	8.0	14.0	9.5	12.0	9.0	10.0	9.5
26	16.5	14.0	14.0	11.0	12.0	8.5	15.0	11.5	12.0	8.5	12.0	10.0
27	15.5	13.5	14.0	10.0	14.0	10.5	15.0	12.0	11.5	8.5	13.0	8.5
28	16.0	14.5	10.5	8.5	14.0	8.5	15.0	11.0	11.5	9.0	11.0	8.5
29	15.0	11.5	13.0	10.5	11.5	8.5	14.0	10.5	13.5	10.0	10.5	8.5
30	13.5	10.0	15.0	11.5	11.0	8.5	13.5	10.0	13.5	9.5	10.0	8.0
31	--	--	16.5	15.0	--	--	14.5	13.5	11.5	9.0	--	--
AVG	11.5	8.5	13.0	10.5	13.5	10.0	13.5	10.5	--	--	12.0	9.5

07076500 LITTLE RED RIVER AT PANGBURN, ARK.

LOCATION.--Lat 35°27', long 91°50', in NE¼ sec.3, T.9 N., R.8 W., White County, temperature recorder on right bank, 0.6 mile downstream from bridge on secondary road, 1 mile north of Pangburn, 8.6 miles upstream from Fourteen Mile Creek, and 22.1 miles downstream from Greers Ferry Dam.

DRAINAGE AREA.--1,227 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 22.0°C June 10; minimum, 4.5°C on several days during February and March.

Period of record:
Water temperatures: Maximum, 22.0°C June 10, 1971; minimum, 2.0°C Dec. 30, 1966.

REMARKS.--Flow regulated by upstream reservoir. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971 (CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.0	9.5	9.0	10.5	10.0	8.5	8.0	6.0	4.5	7.0	6.0
2	11.5	10.0	9.5	9.0	10.0	10.0	8.0	7.0	6.0	5.5	6.0	5.0
3	11.5	11.0	9.5	8.5	10.5	10.0	--	--	6.0	5.5	5.5	5.0
4	11.5	11.0	9.0	8.5	10.0	9.5	--	--	6.5	6.0	6.0	5.0
5	13.0	10.5	9.5	9.0	9.5	9.0	--	--	6.0	5.5	6.0	5.0
6	10.0	9.0	9.5	9.0	9.0	8.5	--	--	5.5	5.5	6.0	5.5
7	9.5	9.0	9.5	9.0	8.5	8.0	--	--	6.0	5.5	6.0	5.0
8	10.0	9.0	10.0	9.5	9.0	8.5	--	--	6.0	6.0	6.0	4.5
9	10.0	9.0	10.5	9.5	10.0	9.0	--	--	5.5	4.5	6.0	5.5
10	9.0	8.5	10.0	9.5	10.0	9.5	--	--	5.0	4.5	7.0	5.5
11	10.0	9.0	10.0	9.0	10.0	9.0	7.0	6.5	4.5	4.5	7.0	6.0
12	11.0	10.0	9.5	9.0	9.0	8.5	7.0	7.0	4.5	4.5	7.0	6.0
13	11.0	10.5	9.5	9.0	8.5	7.0	8.0	7.0	5.0	4.5	8.5	6.5
14	10.5	10.5	9.0	9.0	8.5	7.0	8.0	7.0	5.0	4.5	10.5	8.0
15	11.5	10.5	9.0	8.0	--	--	8.0	6.5	5.5	5.0	11.5	9.5
16	11.0	10.0	8.0	7.0	--	--	6.5	6.0	5.5	5.0	10.5	9.0
17	10.5	10.0	9.0	8.0	--	--	6.5	6.0	6.0	5.0	9.0	8.0
18	11.0	10.0	9.0	9.0	--	--	6.5	6.5	6.5	5.5	8.0	6.0
19	10.5	10.5	9.0	9.0	--	--	6.5	5.5	8.5	6.0	7.0	5.5
20	10.5	10.0	9.0	9.0	--	--	6.0	5.5	7.0	6.0	7.0	5.5
21	11.0	10.0	9.0	9.0	9.0	8.5	6.5	6.0	6.5	6.5	8.0	6.0
22	11.5	10.5	9.5	9.0	9.5	9.0	6.5	6.5	6.5	5.0	9.0	6.5
23	11.5	11.0	9.0	8.5	9.5	9.0	6.5	6.0	5.5	4.5	9.0	7.0
24	11.5	11.0	9.0	9.0	9.0	8.0	7.0	6.5	6.0	5.0	8.5	6.5
25	12.0	11.0	9.0	8.5	8.5	6.5	7.0	6.5	6.5	5.5	6.5	5.0
26	13.0	11.5	9.5	9.0	6.5	5.5	6.5	6.0	8.0	6.0	6.0	4.5
27	12.0	10.0	10.0	9.5	7.0	5.5	6.5	6.0	6.5	5.5	9.0	6.0
28	10.5	9.5	10.0	9.5	6.5	7.0	6.0	6.0	7.0	6.0	9.0	8.5
29	9.5	9.0	10.0	9.5	8.5	8.5	6.5	5.5	--	--	10.5	8.5
30	9.5	9.0	10.5	10.0	8.5	8.5	6.5	6.0	--	--	10.5	8.5
31	9.5	9.0	--	--	8.5	8.5	6.0	5.0	--	--	11.0	8.5
AVG	11.0	10.0	9.5	9.0	9.0	8.5	--	--	6.0	5.5	8.0	6.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	16.0	14.0	19.5	17.0	13.5	12.0	--	--	13.5	12.0
2	10.0	8.0	17.0	15.0	20.0	18.5	14.5	12.0	18.5	17.0	13.0	11.5
3	10.5	8.5	17.0	14.5	19.5	16.5	16.5	14.5	18.5	17.0	13.0	11.5
4	10.5	8.5	16.0	15.0	17.0	15.0	--	--	18.5	16.5	13.5	11.5
5	10.0	8.5	16.0	15.0	15.5	11.0	--	--	18.0	16.5	14.5	13.0
6	8.5	8.0	15.5	12.0	16.0	13.0	--	--	17.0	16.0	15.5	14.0
7	9.0	7.0	15.0	12.0	19.0	15.5	--	--	18.0	16.5	16.0	15.0
8	10.0	7.0	15.0	13.5	19.5	17.0	--	--	19.0	18.0	15.5	13.5
9	10.0	9.0	15.0	14.0	21.0	18.5	--	--	20.0	19.0	13.5	12.0
10	11.5	9.0	16.0	15.0	22.0	20.0	--	--	20.0	18.0	12.0	11.0
11	13.5	10.5	16.0	15.0	21.5	20.0	--	--	18.0	15.0	11.5	10.5
12	15.5	12.0	15.5	13.0	20.0	18.0	--	--	15.5	14.5	13.0	11.0
13	14.5	13.0	14.0	11.5	19.0	17.0	--	--	15.0	13.5	15.0	13.0
14	13.0	8.5	14.5	12.0	18.5	17.0	--	--	15.0	14.0	14.5	12.0
15	10.0	8.0	14.0	13.0	18.5	17.0	--	--	15.0	13.5	12.0	11.5
16	10.0	8.5	15.5	13.0	18.0	15.5	--	--	16.0	15.0	13.0	12.0
17	10.0	9.0	17.0	14.5	16.0	14.0	--	--	17.0	16.0	14.0	13.0
18	11.5	10.0	18.0	16.0	14.5	11.5	--	--	16.5	15.0	15.0	14.0
19	14.5	11.0	18.0	16.0	13.5	11.0	15.5	14.5	14.5	13.0	15.0	15.0
20	13.5	10.0	17.0	14.5	15.0	12.0	16.5	15.5	13.5	12.0	15.5	15.0
21	12.0	9.5	14.5	13.0	16.0	15.0	18.0	16.0	14.0	13.5	15.0	14.0
22	11.5	10.5	14.5	13.5	16.0	12.0	17.0	16.0	15.0	13.0	14.0	10.0
23	11.0	10.0	16.5	14.5	14.0	12.0	17.0	14.0	15.5	14.5	10.5	10.0
24	12.0	9.5	16.5	16.0	15.0	13.0	14.0	11.5	15.0	11.5	10.5	9.5
25	14.0	11.5	16.0	14.0	14.0	10.5	15.5	11.5	13.0	11.5	11.5	10.0
26	15.5	13.5	15.0	13.0	14.0	11.5	16.5	14.5	14.0	12.0	--	--
27	16.0	15.0	14.5	14.0	14.5	13.0	18.5	16.5	13.0	11.5	--	--
28	17.0	15.0	15.0	14.0	16.0	14.5	18.0	16.5	13.0	11.5	--	--
29	16.5	15.5	15.0	13.0	16.0	14.0	16.5	15.5	13.5	12.0	--	--
30	16.5	14.5	16.5	14.5	14.5	13.0	15.5	15.0	14.5	13.5	--	--
31	--	--	18.5	15.0	--	--	--	--	14.5	13.5	--	--
AVG	12.0	10.0	16.0	14.0	17.0	15.0	--	--	16.0	14.5	13.5	12.0

07076620 LITTLE RED RIVER NEAR SEARCY, ARK.

LOCATION.--Lat 35°17', long 91°43', in SE¼ sec.26, T.8 N., R.7 W., White County, temperature recorder on right bank near waterworks tower, 2.5 miles northwest of Searcy, 12.8 miles downstream from Ten Mile Creek, and 23.4 miles upstream from Big Mingo Creek.

DRAINAGE AREA.--1,640 sq mi, approximately.

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 29.0°C June 13; minimum, 4.0°C Feb. 10, 14.

Period of record:
Water temperatures: Maximum, 29.0°C June 30, 1969, June 13, 1971: minimum, freezing point Jan. 18, 19, 1967.

REMARKS.--Flow regulated by upstream reservoir. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.5	10.5	10.5	11.5	11.0	8.5	8.0	6.5	5.5	8.5	8.0
2	14.0	12.0	11.0	10.5	11.0	11.0	8.0	8.0	6.0	4.5	8.5	6.0
3	14.5	13.5	10.5	9.5	11.0	11.0	8.5	7.0	6.0	5.5	6.0	5.0
4	14.5	13.5	9.5	9.0	11.0	10.5	8.5	6.5	6.5	6.0	6.0	5.5
5	14.5	14.0	9.5	9.0	10.5	10.0	6.5	6.0	6.5	6.0	7.0	5.5
6	15.0	10.5	10.0	9.0	10.0	9.0	6.5	5.5	6.0	5.5	7.0	7.0
7	10.5	10.5	10.0	9.5	9.0	8.0	6.5	5.5	6.0	5.0	7.0	6.5
8	10.5	10.5	11.0	10.0	9.0	7.0	6.5	5.5	5.5	5.0	6.5	6.0
9	11.0	10.5	12.0	11.0	10.0	9.0	6.5	5.5	5.0	4.5	7.0	6.0
10	11.0	10.5	12.0	10.5	11.0	10.0	6.0	5.5	5.0	4.0	8.0	6.5
11	11.0	10.0	12.0	10.0	11.0	10.0	6.0	5.5	5.5	5.0	8.5	7.0
12	11.5	11.0	10.0	10.0	10.0	9.0	8.0	6.0	5.5	4.5	9.0	8.5
13	13.5	11.5	10.0	10.0	9.0	8.0	8.5	8.0	4.5	4.5	10.0	9.0
14	15.5	13.5	10.0	9.5	8.0	7.0	9.0	8.5	5.0	4.0	12.0	10.0
15	15.0	14.5	9.5	8.5	8.0	6.0	8.5	8.0	5.5	4.5	13.5	13.0
16	14.5	13.5	8.5	8.0	8.0	7.0	8.0	7.0	6.0	5.5	13.5	13.0
17	13.5	13.0	8.5	7.0	8.5	8.0	7.0	6.5	6.5	5.5	13.0	11.5
18	13.5	13.0	9.5	8.5	9.0	8.5	6.5	6.0	8.0	6.5	11.5	9.0
19	13.0	12.0	9.5	9.0	10.0	9.0	6.5	6.0	9.5	8.0	9.0	8.0
20	13.0	12.0	10.0	9.5	9.5	9.0	6.0	5.5	10.0	9.0	9.0	8.5
21	13.0	12.0	10.0	9.0	9.0	8.0	6.5	6.0	9.0	8.0	8.5	8.5
22	13.5	12.0	10.0	9.5	10.0	8.5	7.0	6.0	8.0	6.0	9.0	8.0
23	13.5	13.5	9.5	8.0	11.0	10.5	7.0	7.0	6.0	5.5	9.5	8.5
24	14.0	13.5	8.5	8.0	10.5	8.5	7.0	7.0	6.5	5.5	9.5	9.0
25	14.5	13.5	9.0	8.5	8.5	7.0	7.0	7.0	8.0	6.5	9.0	6.0
26	15.5	14.0	10.0	8.5	7.0	5.5	7.0	7.0	9.0	8.0	6.5	6.0
27	15.5	14.0	10.5	10.0	5.5	4.5	7.0	6.0	9.0	8.0	8.5	6.0
28	15.0	13.0	10.5	10.5	8.0	5.5	6.5	6.0	8.5	8.0	9.0	8.5
29	13.0	11.0	10.5	10.5	9.0	9.0	7.0	6.0	--	--	10.5	9.0
30	11.0	10.5	11.0	10.5	8.5	8.5	8.0	7.0	--	--	11.5	9.5
31	10.5	10.0	--	--	8.5	8.0	7.0	6.5	--	--	12.0	11.0
AVG	13.0	12.0	10.0	9.5	9.5	8.5	7.0	6.5	7.0	6.0	9.0	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.5	18.5	16.5	24.5	20.0	20.0	17.0	20.5	19.5	18.5	18.0
2	11.5	10.5	19.0	17.0	23.5	21.0	19.5	17.0	21.0	20.0	18.0	16.5
3	11.5	10.0	19.0	17.0	24.0	22.0	21.0	18.0	21.0	20.5	17.0	16.0
4	13.0	11.0	19.0	18.0	24.0	22.0	23.5	20.0	20.5	20.5	17.0	16.0
5	12.0	11.0	18.5	18.0	23.5	20.0	24.5	21.0	20.5	20.0	18.5	16.5
6	11.0	9.5	18.5	18.0	23.5	19.0	26.5	22.0	20.5	20.0	20.0	18.0
7	10.5	8.5	18.5	17.0	25.5	20.0	25.5	24.0	21.0	19.5	21.5	19.0
8	11.5	9.5	18.5	17.0	27.5	21.5	25.5	24.5	23.0	21.0	21.5	20.5
9	11.5	11.0	18.0	17.0	25.0	21.5	24.5	18.5	23.5	22.0	20.5	18.0
10	13.5	11.0	18.5	17.0	27.5	23.5	19.0	18.0	24.5	23.0	18.0	15.0
11	14.5	12.0	18.5	17.0	27.5	24.5	21.0	18.0	24.5	23.0	15.0	14.0
12	16.5	14.0	18.5	17.0	28.5	25.5	22.0	19.0	23.0	20.5	15.5	13.5
13	16.0	15.5	17.0	15.5	29.0	26.0	23.5	20.5	20.5	20.0	18.5	15.0
14	15.5	14.5	15.5	14.5	28.0	25.5	23.0	18.5	20.5	19.5	18.5	17.0
15	14.5	11.0	16.5	15.0	27.5	24.5	18.5	16.0	20.5	19.5	18.5	16.0
16	11.5	11.0	18.0	16.0	25.5	24.0	18.0	15.5	21.5	19.5	16.5	15.5
17	12.0	11.5	19.0	16.5	24.0	23.0	18.5	17.0	23.0	21.0	17.0	16.0
18	13.5	12.0	20.0	18.5	22.0	19.0	19.0	17.0	23.0	21.5	19.5	17.0
19	16.0	13.5	21.0	20.0	19.0	16.0	19.0	18.0	21.0	20.0	18.5	18.0
20	16.5	15.5	21.0	19.5	18.5	16.0	20.5	18.5	20.0	13.0	19.0	18.0
21	16.5	15.0	21.0	19.5	21.5	18.0	22.0	19.0	18.5	17.0	18.5	18.0
22	16.0	15.0	20.5	19.0	20.0	19.0	22.0	20.5	18.0	16.5	18.0	13.5
23	15.0	13.0	21.0	19.5	20.0	18.0	21.5	20.0	20.5	16.5	13.5	11.5
24	14.5	13.0	20.5	19.0	18.0	17.0	20.0	17.0	20.5	19.0	11.5	11.0
25	15.5	14.0	19.5	18.5	18.5	16.5	18.5	17.0	19.0	16.5	12.0	11.0
26	17.0	14.5	20.5	18.5	17.0	16.0	20.5	17.0	18.0	16.0	15.0	12.0
27	18.5	16.5	20.0	18.5	19.5	16.0	20.5	19.0	18.0	17.0	15.5	14.5
28	20.0	18.0	19.5	18.0	22.0	17.0	21.0	20.5	17.0	15.5	16.0	11.5
29	19.5	18.5	19.0	17.0	21.0	19.5	21.0	20.5	17.0	15.5	12.0	11.0
30	18.5	17.0	19.5	18.0	20.5	20.0	20.5	19.5	18.5	16.0	11.5	11.0
31	--	--	23.0	19.0	--	--	20.0	19.0	19.0	18.0	--	--
AVG	14.5	13.0	19.0	17.5	23.0	20.5	21.5	19.0	20.5	19.0	17.0	15.5

07076640 LITTLE RED RIVER NEAR WEST POINT, ARK.

LOCATION.--Lat 35°12', long 91°34', in NE¼ sec.29, T.7 N., R.5 W., White County, temperature recorder on right bank, 2.5 miles east of West Point, 7.4 miles upstream from Big Mingo Creek, and 16 miles upstream from mouth.

DRAINAGE AREA.--1,700 sq mi, approximately.

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1969, October 1970 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 22.0°C July 9-11; minimum, 4.0°C on several days during February.

Period of record:
Water temperatures: Maximum, 25.0°C July 3, 4, 1969; minimum, 2.0°C Jan. 20, 1967.

REMARKS.--Flow regulated by upstream reservoir. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(CONTINUOUS RECORDING THERMOMETER)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	15.0	14.5	14.0	14.0	14.0	6.5	6.5	6.0	5.5	7.0	7.0
2	15.0	15.0	14.0	14.0	14.0	14.0	6.5	6.5	5.5	5.0	7.0	6.5
3	15.0	15.0	14.0	14.0	14.0	14.0	6.5	6.5	5.0	4.5	6.5	5.5
4	15.0	15.0	14.0	14.0	14.0	14.0	6.5	6.0	5.5	5.0	5.5	5.0
5	15.0	15.0	14.0	14.0	14.0	14.0	6.0	5.0	5.5	5.0	5.5	5.0
6	15.0	15.0	14.0	13.5	14.0	13.5	5.5	5.0	5.5	5.0	5.5	5.5
7	15.0	14.5	14.0	14.0	13.5	13.5	5.0	4.5	5.0	5.0	6.0	5.5
8	14.5	14.5	14.0	14.0	13.5	13.5	5.0	4.5	4.5	4.5	6.0	5.5
9	14.5	14.5	14.0	13.5	13.5	13.5	5.0	4.5	4.5	4.5	6.0	6.0
10	14.5	14.5	14.0	13.5	13.5	13.5	5.5	5.0	4.5	4.0	6.0	6.0
11	14.5	14.5	14.0	14.0	13.5	13.5	5.5	5.5	4.5	4.0	6.5	6.0
12	14.5	14.5	14.0	14.0	13.5	13.5	5.5	5.0	4.5	4.5	7.0	6.5
13	14.5	14.5	14.0	14.0	13.5	13.5	6.5	5.0	4.5	4.0	7.0	7.0
14	14.5	14.5	14.0	14.0	13.5	13.5	6.5	6.5	4.0	4.0	8.0	7.0
15	15.0	14.5	14.0	13.5	13.5	13.5	6.5	6.5	4.0	4.0	8.0	8.0
16	15.0	15.0	13.5	13.5	13.5	13.0	6.5	6.0	4.5	4.0	9.0	8.0
17	15.0	15.0	13.5	13.5	13.0	13.0	6.0	6.0	5.5	4.5	9.0	9.0
18	15.0	15.0	13.5	13.5	13.0	13.0	6.0	5.5	6.0	5.5	9.0	9.0
19	15.0	15.0	13.5	13.5	13.5	13.0	5.5	5.0	6.5	6.0	9.0	9.0
20	15.0	15.0	13.5	13.5	13.5	13.5	5.0	5.0	7.0	6.5	9.0	9.0
21	15.0	14.5	13.5	13.5	13.5	13.0	5.0	5.0	7.0	7.0	9.0	9.0
22	14.5	14.5	13.5	13.5	13.5	13.0	5.5	5.0	7.0	6.5	9.0	8.5
23	15.0	14.5	13.5	13.5	--	--	5.5	5.5	6.5	5.5	8.5	8.5
24	15.0	15.0	13.5	13.5	--	--	6.0	5.5	5.5	5.0	8.5	8.5
25	15.0	15.0	13.5	13.5	--	--	6.0	5.5	6.0	5.5	8.5	8.0
26	14.5	14.5	13.5	13.5	--	--	6.0	6.0	6.5	6.0	8.0	6.5
27	15.0	14.5	14.0	13.5	--	--	6.0	5.5	7.0	6.5	7.0	6.5
28	15.0	15.0	14.0	14.0	--	--	6.0	5.5	7.0	7.0	7.0	6.5
29	15.0	14.5	14.0	14.0	--	--	5.5	5.0	--	--	7.0	7.0
30	14.5	14.5	14.0	14.0	6.5	6.0	6.0	5.5	--	--	8.5	7.0
31	14.5	14.5	--	--	6.5	6.5	6.0	6.0	--	--	9.0	8.5
AVG	15.0	14.5	14.0	13.5	13.0	13.0	6.0	5.5	5.5	5.0	7.5	7.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	9.0	16.5	16.5	18.5	18.5	20.5	20.0	20.5	20.0	19.5	18.5
2	9.5	9.0	17.0	16.5	18.5	18.5	20.5	20.5	20.5	20.0	19.5	19.5
3	9.5	9.0	17.0	17.0	18.5	18.5	21.0	20.5	21.0	20.5	20.0	19.5
4	9.5	9.0	17.0	17.0	19.0	18.5	21.0	20.5	21.0	20.0	20.0	18.5
5	9.0	9.0	18.0	17.0	19.0	19.0	20.5	20.5	20.0	20.0	19.0	18.5
6	9.0	9.0	--	--	20.0	19.0	21.0	20.5	20.5	20.0	19.0	18.5
7	9.5	9.0	--	--	20.0	20.0	21.5	21.0	21.0	20.5	19.5	19.0
8	9.5	9.0	--	--	20.0	20.0	21.5	21.5	21.0	21.0	20.5	19.5
9	9.5	9.0	--	--	20.0	20.0	22.0	21.5	21.0	21.0	21.0	20.5
10	9.5	9.0	--	--	20.0	20.0	22.0	22.0	21.5	21.0	21.0	21.0
11	9.5	9.0	--	--	20.0	20.0	22.0	21.5	21.5	21.5	21.0	19.0
12	9.5	9.0	--	--	20.0	20.0	21.5	21.0	21.5	21.5	19.0	17.0
13	13.0	9.5	--	--	20.0	20.0	21.5	21.0	21.5	21.0	17.0	17.0
14	14.5	12.0	--	--	20.5	20.0	21.5	21.5	21.5	21.0	18.0	17.0
15	15.5	14.0	--	--	20.5	20.5	21.5	21.5	21.5	21.0	18.5	18.0
16	14.5	12.0	--	--	20.5	20.5	21.5	20.0	21.0	21.0	18.5	18.5
17	13.0	11.5	16.0	15.5	21.0	20.5	20.0	19.5	21.0	21.0	18.5	18.5
18	12.0	12.0	16.5	15.5	21.0	21.0	19.5	19.5	21.5	21.0	19.0	18.5
19	12.0	12.0	17.0	16.5	21.0	21.0	19.5	19.5	21.5	21.5	19.0	18.5
20	14.0	12.0	17.0	17.0	21.0	21.0	20.0	19.5	21.5	21.5	18.5	18.5
21	15.0	14.0	18.0	17.0	21.0	20.0	20.0	20.0	21.5	21.5	18.5	18.5
22	16.0	15.0	18.5	18.0	20.0	19.5	21.0	20.0	21.5	20.0	18.5	18.0
23	16.0	14.5	19.0	18.5	20.5	20.0	21.0	21.0	20.0	19.0	18.0	16.5
24	13.5	14.5	19.0	19.0	20.5	20.5	21.0	20.5	21.0	18.5	16.5	13.5
25	13.5	14.5	19.0	18.5	21.0	20.5	20.5	19.5	21.0	20.5	13.5	13.5
26	14.0	14.5	19.0	18.5	20.5	19.5	19.5	19.5	21.0	19.5	13.5	13.5
27	14.5	14.0	18.5	18.5	20.0	19.5	20.0	19.5	19.5	18.5	14.0	13.5
28	15.5	14.5	18.5	18.5	19.5	19.0	20.5	19.5	18.5	18.5	16.0	14.0
29	16.0	15.5	19.0	18.5	19.5	19.0	21.0	20.5	18.5	18.0	16.0	13.5
30	16.5	16.0	18.5	18.5	20.0	19.5	21.0	21.0	18.5	18.0	13.0	12.0
31	--	--	18.5	18.5	--	--	20.5	20.0	19.0	18.5	--	--
AVG	12.5	11.5	--	--	20.0	20.0	21.0	20.5	20.5	20.0	18.0	17.5

07076750 WHITE RIVER AT GEORGETOWN, ARK.

LOCATION.--Lat 35°07'45", long 91°27'00", in sec.20, T.6 N., R.4 W., White County, at National Weather Service gaging station on right bank at Georgetown, 9.2 miles downstream from Little Red River, and at mile 173.2.

DRAINAGE AREA.--22,300 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 28.5°C July 10, 11; minimum, 3.0°C on several days during January and February.

Period of record:
Water temperatures: Maximum, 28.5°C July 10, 11, 1971; minimum, freezing point Jan. 9, 10, 1970.

REMARKS.--Flow regulated by upstream reservoirs. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.5	14.0	13.5	11.5	10.5	6.0	5.5	5.5	5.0	9.0	8.5
2	17.0	17.0	13.5	13.0	12.0	11.5	6.0	6.0	5.0	4.5	9.0	8.0
3	18.0	17.0	13.0	12.0	12.0	12.0	6.0	6.0	4.5	4.5	8.0	7.0
4	18.0	17.0	12.0	11.0	12.0	12.0	6.5	6.0	4.5	4.5	7.0	6.5
5	18.0	18.0	11.0	10.5	12.0	12.0	6.0	6.0	4.5	4.5	6.5	6.5
6	18.0	16.5	10.5	10.0	12.0	11.0	6.0	5.0	5.0	4.5	6.5	6.5
7	17.0	16.5	10.5	10.0	11.0	10.0	5.0	4.0	5.0	4.5	6.0	6.0
8	16.5	16.5	11.0	10.5	10.0	9.0	4.0	3.5	4.5	4.0	6.0	6.0
9	16.0	15.0	11.0	11.0	9.0	9.0	3.5	3.5	4.0	3.5	6.5	6.0
10	15.5	15.0	11.5	11.0	9.0	9.0	3.5	3.0	3.5	3.5	7.0	6.5
11	15.5	15.0	11.5	11.5	9.5	9.0	3.0	3.0	3.5	3.0	8.0	7.0
12	15.0	15.0	11.5	11.5	10.0	9.5	3.5	3.0	3.5	3.0	8.5	6.5
13	15.5	15.0	11.5	11.0	10.0	9.5	4.5	3.5	3.5	3.0	9.0	8.0
14	15.0	14.5	11.0	10.5	9.5	9.0	5.0	4.5	3.5	3.0	10.0	9.0
15	15.0	14.5	10.5	10.0	9.0	8.5	5.5	5.0	4.0	3.5	11.0	10.5
16	14.5	14.5	10.0	9.5	8.5	8.5	6.0	5.5	4.5	4.0	11.5	11.0
17	14.5	14.5	9.5	9.5	8.5	8.0	6.0	6.0	5.0	4.5	12.0	11.5
18	14.5	14.0	9.0	9.0	8.0	8.0	6.0	5.5	5.5	5.0	12.0	11.5
19	14.0	13.5	9.0	8.5	8.5	8.0	5.5	5.0	6.5	5.5	11.5	11.5
20	13.5	13.0	9.0	8.5	8.5	8.5	5.0	4.5	8.0	6.5	11.5	10.0
21	13.5	13.5	9.0	9.0	8.5	8.5	4.5	4.0	8.5	8.0	10.0	9.5
22	13.5	13.0	9.5	9.0	9.0	8.5	4.0	3.5	8.5	8.5	9.5	9.0
23	13.5	13.0	9.0	8.5	9.0	9.0	4.0	4.0	8.5	8.0	9.0	9.0
24	13.5	13.5	8.5	8.0	9.0	8.5	5.0	4.0	8.0	7.0	9.5	9.0
25	14.0	13.5	8.0	6.5	8.5	8.0	5.0	5.0	7.0	6.5	9.0	8.5
26	14.0	14.0	7.0	6.5	8.0	6.5	5.5	5.0	8.0	6.5	8.5	8.5
27	14.5	14.0	7.0	7.0	6.5	6.0	5.0	5.0	8.0	7.0	8.5	8.5
28	15.0	14.5	9.0	7.0	6.0	5.5	5.0	5.0	8.5	8.0	8.5	8.0
29	15.0	14.5	10.0	9.0	5.5	5.5	5.5	5.0	---	---	9.0	8.0
30	15.0	14.5	10.5	10.0	5.5	5.5	5.5	5.5	---	---	9.5	9.0
31	14.5	14.0	---	---	5.5	5.5	5.5	5.0	---	---	10.0	9.5
AVG	15.5	15.0	10.5	10.0	9.0	8.5	5.0	4.5	5.5	5.0	9.0	8.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.0	19.0	18.0	19.0	18.0	25.0	24.0	25.0	25.0	23.0	23.0
2	11.0	10.5	19.0	18.5	20.0	18.5	25.5	25.0	25.0	24.5	23.5	23.0
3	12.0	11.0	19.0	18.0	20.5	20.0	25.5	25.0	24.5	24.0	24.5	23.5
4	13.0	11.5	19.0	18.0	21.5	20.5	26.5	26.0	24.0	23.5	25.0	24.5
5	12.0	11.5	18.5	18.5	23.0	21.5	26.0	25.0	23.5	23.0	25.0	24.5
6	11.5	11.0	18.5	18.5	22.0	21.5	26.5	26.0	23.5	23.0	25.5	25.0
7	11.5	10.5	19.0	18.5	22.0	21.5	27.0	26.5	23.5	23.5	25.5	25.0
8	11.5	11.0	19.5	19.0	22.0	21.5	27.5	27.0	24.5	23.5	25.0	24.5
9	11.5	11.0	19.5	19.0	22.0	21.5	28.0	27.0	25.0	24.0	25.0	24.5
10	12.0	11.0	19.5	19.0	23.5	21.0	28.5	27.5	26.0	25.0	25.5	24.5
11	13.0	11.5	19.5	19.0	23.5	23.0	28.5	28.0	26.5	26.0	25.0	23.0
12	14.0	13.0	19.0	18.5	25.0	23.5	28.0	27.5	26.5	26.0	23.0	19.5
13	14.5	14.0	18.5	18.0	25.0	24.5	27.5	26.5	26.5	26.0	24.0	19.5
14	15.0	14.0	18.5	18.0	26.0	25.0	27.0	26.5	26.5	26.5	21.0	20.5
15	15.5	14.5	18.5	18.0	26.0	25.0	27.0	26.5	26.5	25.5	21.5	21.0
16	16.5	15.5	18.5	18.5	26.0	25.5	27.5	27.0	25.5	24.5	21.5	21.0
17	17.0	16.0	18.5	18.5	26.5	25.5	27.5	26.5	25.5	25.0	22.0	21.0
18	18.0	16.5	19.5	19.0	26.0	25.5	27.0	26.0	25.0	24.5	22.0	20.0
19	18.5	17.0	20.0	19.0	26.0	25.0	26.0	25.5	25.5	25.0	22.0	21.5
20	18.5	18.0	20.5	20.0	26.0	24.5	25.5	25.0	26.0	25.5	21.5	21.5
21	18.0	17.0	20.5	20.0	24.5	23.5	25.5	24.5	26.0	26.0	21.5	21.0
22	18.5	18.0	20.5	19.0	24.0	23.5	25.5	25.0	26.0	25.5	21.0	20.0
23	18.5	17.0	19.5	19.0	24.5	23.5	25.0	24.0	25.5	24.5	20.5	20.0
24	18.0	17.0	20.0	19.5	25.5	24.5	24.0	24.0	24.5	23.5	20.5	20.0
25	18.0	17.0	20.0	19.0	26.0	25.5	24.5	24.0	23.0	21.5	20.0	19.5
26	18.0	17.0	20.5	19.5	27.0	26.0	25.0	24.5	24.5	22.0	20.5	20.0
27	18.5	18.0	20.0	19.0	27.0	26.5	25.0	25.0	24.5	23.5	21.0	20.5
28	19.0	18.0	19.5	19.0	27.0	25.5	25.5	25.0	23.5	21.5	21.0	20.5
29	19.0	18.5	19.5	18.0	25.5	25.0	25.5	25.0	21.5	21.0	21.0	20.5
30	18.5	18.0	18.0	17.0	25.0	24.0	25.0	24.5	21.5	21.0	22.0	20.0
31	---	---	18.0	17.0	---	---	25.0	24.5	23.0	21.5	---	---
AVG	15.5	14.5	19.5	18.5	24.0	23.5	26.0	25.5	25.0	24.0	22.5	22.0

07077080 CACHE RIVER NEAR MCDOUGAL, ARK.

LOCATION.--Lat 36°26'01", long 90°21'30", in NW¼NE¼ sec.30, T.21 N., R.7 E., Clay County, at bridge on U.S. Highway 62, 1.7 miles east of McDougal, and 3.7 miles upstream from Little Cache River ditch.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 12, 1970	17.	-	-	-	-	-	10.5	-	-	-
OCT. 27......	10.	-	-	-	-	-	9.0	-	-	-
NOV. 24......	2.	-	-	-	-	-	7.5	-	-	-
DEC. 7......	9.	1600.	0	8.0	0.70	1.6	9.0	0.04	0.320	180.
DEC. 28......	4.	-	-	-	-	-	9.5	-	-	-
JAN. 4, 1971	7.	-	-	-	-	-	7.0	-	-	-
JAN. 19......	0	-	-	-	-	-	6.0	-	-	-
FEB. 2......	0	1380.	50.0	12.0	4.90	6.8	5.5	0.21	0.030	193.
FEB. 16......	4.	-	-	-	-	-	4.5	-	-	-
MAR. 3......	2.	-	-	-	-	-	6.0	-	-	-
MAR. 17......	14.	-	-	-	-	-	7.5	-	-	-
APR. 5......	7.	-	-	-	-	-	20.0	-	-	-
APR. 21......	17.	-	-	-	-	-	7.5	-	-	-
MAY 17......	23.	-	-	-	-	-	13.0	-	-	-
JUNE 2......	29.	-	-	-	-	-	6.0	-	-	-
JUNE 16......	24.	-	-	-	-	-	11.0	-	-	-
JULY 22......	21.	-	-	-	-	-	8.5	-	-	-
AUG. 3......	23.	-	-	-	-	-	10.0	-	-	-
AUG. 16......	27.	-	-	-	-	-	9.0	-	-	-
AUG. 31......	24.	-	-	-	-	-	8.5	-	-	-
SEP. 15......	26.	-	-	-	-	-	9.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 12, 1970	-	-	39.	87.	6.70	-	240.	5.3L	9.8
OCT. 27......	-	-	14.	48.	6.90	-	300.	6.3	7.4
NOV. 24......	-	-	21.	60.	6.80	-	300.	9.6	11.1
DEC. 7......	96.	22.0	39.	114.	7.40	70.	50.	2.2	9.0
DEC. 28......	-	-	21.	71.	7.00	-	60.	3.0	12.1
JAN. 4, 1971	-	-	16.	46.	6.50	-	930.	4.1	9.3
JAN. 19......	-	-	20.	66.	6.20	-	90.	2.1	12.9
FEB. 2......	90.	30.0	41.	100.	7.20	100.	40.	0.6	10.4
FEB. 16......	-	-	24.	62.	6.80	-	220.	7.9	11.8
MAR. 3......	-	-	23.	58.	7.00	-	220.	1.2	12.0
MAR. 17......	-	-	20.	94.	6.90	-	170.	0.7	9.0
APR. 5......	-	-	30.	134.	7.10	-	220.	12.7L	13.7
APR. 21......	-	-	13.	69.	6.60	-	550.	5.0	9.2
MAY 17......	-	-	65.	147.	7.20	-	320.	5.4L	9.4
JUNE 2......	-	-	38.	113.	6.80	-	480.	33.6L	9.8
JUNE 16......	-	-	190.	333.	7.30	-	270.	5.7	3.6
JULY 22......	-	-	112.	238.	7.60	-	78.	26.0L	2.0
AUG. 3......	-	-	90.	192.	6.40	-	90.	4.6L	9.1
AUG. 16......	-	-	109.	204.	7.00	-	98.	7.8	9.8
AUG. 31......	-	-	58.	124.	6.70	-	110.	8.4	3.0
SEP. 15......	-	-	81.	143.	6.90	-	120.	3.1	2.9

DATE	31501 COLIFORM IMMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCA MF/100ML
DEC. 7, 1970	860.	490.	900.
FEB. 2, 1971	570.	78.	78.
AUG. 3......	1600.	880.	450.

L Greater than.

07077800 WHITE RIVER AT CLARENDON, ARK.

LOCATION.--Lat 34°41'08", long 91°18'55", in W½ sec.22, T.1 N., R.3 W., Monroe County, at gaging station at St. Louis-Southwestern Railroad bridge at Clarendon, 1.1 miles downstream from Cache River, and at mile 100.1.

DRAINAGE AREA.--25,497 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1967.
Chemical and biological analyses: October 1970 to September 1971.
Water temperature: October 1945 to September 1965.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
OCT. 14...	19300	2.2	10	40	0	0	--	20	2	--
NOV. 25...	30400	--	--	--	--	--	--	--	--	--
DEC. 16...	20200	--	--	--	--	--	--	--	--	--
JAN. 19...	41400	--	50	10	0	0	0	10	10	0
FEB. 24...	44200	--	--	--	--	--	--	--	--	--
MAR. 31...	25300	--	--	--	--	--	--	--	--	--
APR. 21...	13700	3.8	20	15	3	0	0	4	0	0
MAY 27...	10400	--	--	--	--	--	--	--	--	--
JUNE 16...	13000	--	--	--	--	--	--	--	--	--
JULY 20...	10100	--	10	20	0	0	0	3	0	0
SEP. 01...	12100	--	--	--	--	--	--	--	--	--
29...	8800	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL AMMONIA ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM
OCT. 14...	9.2	3.3	.0	1.3	.13	.43	125	2	123	3
NOV. 25...	--	--	--	--	.18	.15	--	--	--	--
DEC. 16...	--	--	--	--	.26	.030	--	--	--	--
JAN. 19...	--	--	--	--	.31	.020	--	--	--	--
FEB. 24...	--	--	--	--	.16	.19	--	--	--	--
MAR. 31...	--	--	-	--	.26	.000	--	--	--	--
APR. 21...	9.2	6.7	.1	.0	.10	.13	160	6	148	5
MAY 27...	--	--	--	-	.26	.020	--	--	--	--
JUNE 16...	--	--	--	--	.16	.080	--	--	--	--
JULY 20...	--	--	--	--	.29	.040	--	--	--	--
SEP. 01...	--	--	--	--	.26	.26	--	--	--	--
29...	--	--	--	--	.47	.60	--	--	--	--

FIELD ANALYSES

DATE	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT. 14...	16.0	262	7.7	8.2	83
NOV. 25...	7.0	225	7.8	10.0	89
DEC. 16...	9.0	266	7.9	8.6	76
JAN. 19...	6.0	186	7.7	9.2	66
FEB. 24...	8.0	180	7.6	8.4	70
MAR. 31...	11.5	223	7.8	10.4	95
APR. 21...	19.5	207	7.9	9.2	99
MAY 27...	19.0	255	8.1	7.5	81
JUNE 16...	28.0	205	8.0	8.0	101
JULY 20...	27.0	266	7.8	6.7	84
SEP. 01...	23.0	270	7.7	6.6	76
29...	24.5	--	--	6.3	75

07077800 WHITE RIVER AT CLARENDON, ARK.--Continued

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 14...	.7	50	--	20	30	12	1.7	1.9	150	0
NOV. 25...	<.5	--	--	--	--	--	--	--	--	--
DEC. 16...	2.0	--	--	--	--	--	--	--	--	--
JAN. 19...	--	4	--	20	--	--	--	--	--	--
FEB. 24...	--	--	--	--	--	--	--	--	--	--
MAR. 31...	--	--	--	--	--	--	--	--	--	--
APR. 21...	--	9	0	0	39	14	3.9	1.4	180	0
MAY 27...	--	--	--	--	--	--	--	--	--	--
JUNE 16...	--	--	--	--	--	--	--	--	--	--
JULY 28...	--	2	0	10	--	--	--	--	--	--
SEP. 01...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT. 14...	.1	246	7.7	15	88	11	2.0	1900	300	570
NOV. 25...	--	--	--	20	80	9	3.0	1600	230	E50
DEC. 16...	--	268	7.8	7	120	5	4.0	1400	80	92
JAN. 19...	--	187	7.7	80	40	14	2.0	500	E133	E72
FEB. 24...	--	181	--	30	2	11	1.0	500	130	E44
MAR. 31...	--	232	--	20	60	15	3.0	250	210	E16
APR. 21...	.1	294	8.3	2	15	4	2.0	E188	E13	E14
MAY 27...	--	235	8.2	7	4	2	2.1	550	E80	310
JUNE 16...	--	250	7.9	5	4	5	2.6	E200	E73	E24
JULY 28...	--	274	7.9	5	--	--	1.8	E160	--	680
SEP. 01...	--	275	--	5	45	19	1.8	E200	170	90
29...	--	298	8.0	5	35	2	1.6	E190	E7	E12

ANALYSIS OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE 16...	.00	.00	.00	.04	.00	.00	.00	.00	.00

DATE	CHLORDANE (UG/L)	PARATHION (UG/L)	METHYL PARATHION (UG/L)	MALATHION (UG/L)	DIAZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE 16...	.00	.00	.00	.00	.01	.00	.00	.00

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
JUNE 16...	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)
JUNE 16...	<.20	<1.0	<.20	<.20	<.20	<.30	<.10	<.10

< Less than.
E Estimated.

07077952 BIG CREEK NEAR POPLAR GROVE, ARK.

LOCATION.--Lat 34°30'17", long 90°50'59", in SE¼NW¼ sec.24, T.2 S., R.2 E., Phillips County, at gaging station near right bank on downstream side of bridge on county road, 600 ft downstream from small tributary, 0.9 mile northeast of Trenton, and 3.0 miles south of Poplar Grove.

DRAINAGE AREA.--464 sq mi.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
OCT.										
14...	280	1.4	70	50	0	0	--	8	0	--
DEC.										
10...	--	--	--	--	--	--	--	--	--	--
16...	13	--	--	--	--	--	--	--	--	--
JAN.										
19...	598	--	60	20	0	11	0	11	4	0
FEB.										
24...	1110	--	--	--	--	--	--	--	--	--
MAR.										
31...	354	--	--	--	--	--	--	--	--	--
APR.										
21...	129	5.5	10	710	1	1	6	8	7	0
MAY										
27...	595	--	--	--	--	--	--	--	--	--
JUNE										
16...	496	--	--	--	--	--	--	--	--	--
JULY										
28...	45	--	30	580	0	2	0	9	1	0
SEP.										
01...	79	--	--	--	--	--	--	--	--	--
29...	90	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL AMMONIA ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM
OCT.										
14...	7.2	5.2	.0	1.3	.45	.040	50	0	--	10
DEC.										
10...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	.51	.10	--	--	--	--
JAN.										
19...	--	--	--	--	.64	.32	--	--	--	--
FEB.										
24...	--	--	--	--	.83	.70	--	--	--	--
MAR.										
31...	--	--	--	--	.33	.20	--	--	--	--
APR.										
21...	11	7.5	.2	1.9	.54	.12	98	0	108	17
MAY										
27...	--	--	--	--	.40	.67	--	--	--	--
JUNE										
16...	--	--	--	--	1.2	1.0	--	--	--	--
JULY										
28...	--	--	--	--	.78	.20	--	--	--	--
SEP.										
01...	--	--	--	--	.49	.36	--	--	--	--
29...	--	--	--	--	.51	.12	--	--	--	--

07077952 BIG CREEK NEAR POPLAR GROVE, ARK.--Continued

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
14...	.8	0	--	14	12	5.0	2.9	7.1	--	--
DEC.										
10...	2.0	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
JAN.										
19...	--	1	--	20	--	--	--	--	--	--
FEB.										
24...	--	--	--	--	--	--	--	--	--	--
MAR.										
31...	--	--	--	--	--	--	--	--	--	--
APR.										
21...	--	10	1	10	23	10	10	4.4	132	0
MAY										
27...	--	--	--	--	--	--	--	--	--	--
JUNE										
16...	--	--	--	--	--	--	--	--	--	--
JULY										
28...	--	4	0	30	--	--	--	--	--	--
SEP.										
01...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT.										
14...	.2	143	--	80	120	31	3.0	1800	1100	900
DEC.										
10...	--	--	--	--	--	--	--	--	--	--
16...	--	265	7.6	20	120	22	>7.0	9700	1500	4000
JAN.										
19...	--	108	7.0	250	60	26	3.0	E200	E110	88
FEB.										
24...	--	93	6.9	100	120	34	3.0	E2000	E1900	340
MAR.										
31...	--	134	7.4	60	380	33	3.0	E250	E93	E130
APR.										
21...	.4	259	8.0	20	360	26	4.0	>1600	>600	E8800
MAY										
27...	--	149	7.4	150	80	26	3.6	E300	E140	E200
JUNE										
16...	--	142	7.0	150	500	34	4.0	E12000	>2000	E7500
JULY										
28...	--	295	7.6	20	130	16	2.5	E400	--	1100
SEP.										
01...	--	288	8.0	19	45	20	1.6	2100	E300	960
29...	--	336	7.5	30	45	17	4.4	800	E160	340

> Greater than.
E Estimated.

07077952 BIG CREEK NEAR POPLAR GROVE, ARK.--Continued

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.					
14...	17.5	139	7.2	6.1	64
DEC.					
16...	7.0	260	7.6	8.5	70
JAN.					
19...	4.5	106	7.2	7.7	59
FEB.					
24...	10.0	--	7.0	9.9	88
MAR.					
31...	12.5	129	7.6	9.5	89
APR.					
21...	19.0	254	7.1	5.2	55
MAY					
27...	19.0	131	7.2	5.5	59
JUNE					
16...	25.0	130	7.3	4.8	58
JULY					
28...	24.5	288	7.7	5.0	60
SEP.					
01...	24.0	324	7.4	5.4	64
29...	22.0	--	--	5.4	61

ANALYSIS OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE									
16...	.00	.00	.03	.08	.00	.00	.00	.00	.00

DATE	CHLORDANE (UG/L)	TOXAPHENE (UG/L)	PARATHION (UG/L)	METHYL PARATHION (UG/L)	MALATHION (UG/L)	DIAZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE									
16...	.00	.40	.00	.00	.00	.00	.00	.00	.00

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
JUNE								
16...	<.20	260	110	62	<.20	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)
JUNE								
16...	<.20	<1.0	<.20	<.20	<.20	<.60	<.20	<.20

< Less than.

07078285 WHITE RIVER AT LOCK AND DAM 1, NEAR NADY, ARK.

LOCATION.--Lat 34°02', long 91°11', in sec.1, T.8 S., R.2 W., Arkansas County, at Lock and Dam 1, 3.4 miles northeast of Nady.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 7, 1970	23.	-	-	-	-	-	5.0	-	-	-
OCT. 21......	18.	-	-	-	-	-	10.0	-	-	-
NOV. 4......	13.	-	-	-	-	-	2.5	-	-	-
NOV. 18......	14.	-	-	-	-	-	9.0	-	-	-
DEC. 2......	12.	-	-	-	-	-	9.5	-	-	-
DEC. 7......	9.	-	-	-	-	-	3.0	-	-	-
DEC. 15......	11.	200.	0	32.0	14.80	4.6	7.0	0.14	0.220	166.
JAN. 13, 1971	8.	-	-	-	-	-	4.5	-	-	-
JAN. 25......	7.	-	-	-	-	-	6.0	-	-	-
FEB. 10......	4.	-	-	-	-	-	6.5	-	-	-
FEB. 24......	10.	-	-	-	-	-	5.0	-	-	-
MAR. 10......	10.	-	-	-	-	-	3.5	-	-	-
MAR. 24......	9.	1160.	0	18.4	6.90	1.4	8.0	0.17	0.330	155.
APR. 14......	16.	-	-	-	-	-	9.0	-	-	-
APR. 26......	21.	-	-	-	-	-	5.0	-	-	-
MAY 25......	23.	-	-	-	-	-	4.0	-	-	-
JUNE 22......	28.	300.	50.0K	32.8	14.40	2.0	5.0	0.20	-	222.
JULY 26......	27.	-	-	-	-	-	6.0	-	-	-
AUG. 11......	29.	-	-	-	-	-	6.5	-	-	-
AUG. 25......	29.	-	-	-	-	-	9.5	-	-	-
SEP. 8......	28.	-	-	-	-	-	8.5	-	-	-
SEP. 21......	23.	100.	0	33.6	11.70	6.5	9.0	0.10	0.500	174.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 7, 1970	-	-	111.	196.	7.50	-	60.	2.9	8.2
OCT. 21......	-	-	116.	221.	8.10	-	35.	5.0	8.8
NOV. 4......	-	-	98.	133.	7.20	-	100.	1.2	8.8
NOV. 18......	-	-	110.	194.	7.90	-	40.	1.7	9.9
DEC. 2......	-	-	108.	200.	7.90	-	35.	3.2	10.2
DEC. 7......	-	-	153.	260.	8.10	-	25.K	1.9	12.3
DEC. 15......	141.	80.0	127.	193.	7.90	5.	35.	1.1	10.9
JAN. 13, 1971	-	-	96.	174.	7.10	-	55.	2.1	10.7
JAN. 25......	-	-	100.	189.	7.60	-	55.	2.2	10.6
FEB. 10......	-	-	120.	173.	7.20	-	65.	1.8	11.9
FEB. 24......	-	-	98.	173.	7.40	-	50.	2.7	10.1
MAR. 10......	-	-	90.	168.	7.50	-	25.K	0.9	9.3
MAR. 24......	74.	46.0	73.	126.	7.10	70.	25.K	3.7	6.7
APR. 14......	-	-	133.	244.	7.90	-	90.	3.5	9.1
APR. 26......	-	-	144.	238.	8.60	-	70.	2.8	9.6
MAY 25......	-	-	128.	225.	8.00	-	110.	3.6	8.9
JUNE 22......	141.	82.0	139.	263.	8.10	10.	65.	3.3	6.7
JULY 26......	-	-	149.	294.	8.50	-	25.K	2.1	7.4
AUG. 11......	-	-	70.	161.	7.70	-	90.	2.5	6.6
AUG. 25......	-	-	109.	204.	7.30	-	55.	2.1	7.1
SEP. 8......	-	-	139.	287.	8.20	-	65.	2.6	6.9
SEP. 21......	132.	84.0	123.	233.	8.20	5.	25.K	3.0	9.4

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
DEC. 15, 1970	74.	10.	13.
MAR. 24, 1971	170.	40.	24.
JUNE 22......	3500.	3500.K	620.
SEP. 21......	460.	180.	810.

K Less than.

07188620 LITTLE SUGAR CREEK AT CAVERNA, MO.

LOCATION.--Lat 36°30'10", long 94°16'30", in SW¼NE¼ sec.34, T.21 N., R.31 W., McDonald County, at bridge on U.S. Highway 71 at Caverna, Mo., and 0.1 mile downstream from Bear Creek.

DRAINAGE AREA.--118 sq mi (at State line).

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	18.	70.	0	49.6	3.60	6.2	8.0	2.06	0.270	186.
OCT. 27......	-	-	-	-	-	-	5.5	-	-	-
NOV. 9......	11.	-	-	-	-	-	8.5	-	-	-
NOV. 23......	5.	-	-	-	-	-	8.0	-	-	-
NOV. 30......	14.	-	-	-	-	-	8.5	-	-	-
DEC. 21......	10.	-	-	-	-	-	7.5	-	-	-
JAN. 5, 1971	5.	0	0	45.6	3.60	5.6	8.0	2.70	0.480	150.
JAN. 19......	7.	-	-	-	-	-	6.5	-	-	-
FEB. 2......	6.	-	-	-	-	-	6.5	-	-	-
FEB. 15......	10.	-	-	-	-	-	7.0	-	-	-
MAR. 15......	10.	-	-	-	-	-	6.5	-	-	-
MAR. 29......	9.	-	-	-	-	-	9.0	-	-	-
APR. 20......	16.	-	-	-	-	-	6.0	-	-	-
MAY 3......	16.	-	-	-	-	-	5.0	-	-	-
MAY 17......	16.	-	-	-	-	-	6.0	-	-	-
JUNE 14......	23.	-	-	-	-	-	6.0	-	-	-
JUNE 28......	15.	-	-	-	-	-	16.0	-	-	-
JULY 6......	25.	20.K	20.0K	54.4	-	3.0	6.0	1.10	-	190.
JULY 20......	22.	-	-	-	-	-	6.5	-	-	-
AUG. 2......	22.	-	-	-	-	-	9.0	-	-	-
AUG. 16......	26.	-	-	-	-	-	-	-	-	-
SEP. 13......	24.	-	-	-	-	-	11.5	-	-	-
SEP. 27......	21.	-	-	-	-	-	11.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	139.	124.0	124.	179.	7.20	0	25.K	0.4	8.6
OCT. 27......	-	-	99.	180.	7.40	-	110.	1.0	8.8
NOV. 9......	-	-	115.	207.	7.30	-	25.K	0.7	9.2
NOV. 23......	-	-	122.	213.	8.20	-	25.K	1.6	12.1
NOV. 30......	-	-	121.	257.	8.00	-	25.K	1.2	10.7
DEC. 21......	-	-	121.	237.	8.10	-	25.K	1.8	11.6
JAN. 5, 1971	129.	114.0	114.	208.	7.60	5.	25.K	1.1	12.0
JAN. 19......	-	-	121.	250.	7.70	-	25.K	10.8	11.9
FEB. 2......	-	-	126.	259.	8.10	-	25.K	1.3	12.9
FEB. 15......	-	-	126.	206.	7.70	-	25.K	0	11.9
MAR. 15......	-	-	117.	189.	8.00	-	25.K	1.6	11.3
MAR. 29......	-	-	111.	226.	8.70	-	25.K	3.3	12.2
APR. 20......	-	-	120.	253.	8.30	-	25.K	2.6	11.9
MAY 3......	-	-	123.	202.	8.60	-	25.K	5.3	13.7
MAY 17......	-	-	134.	232.	7.90	-	25.K	1.3	7.7
JUNE 14......	-	-	132.	263.	8.40	-	25.K	1.8	9.4
JUNE 28......	-	-	145.	294.	8.40	-	25.K	1.7	8.3
JULY 6......	141.	136.0	128.	294.	8.10	0	25.K	2.3	9.2
JULY 20......	-	-	138.	333.	8.10	-	25.K	1.6	8.4
AUG. 2......	-	-	144.	294.	8.10	-	25.K	2.1	9.7
AUG. 16......	-	-	143.	278.	7.60	-	25.K	3.7	9.9
SEP. 13......	-	-	142.	247.	7.70	-	25.K	1.8	9.6
SEP. 27......	-	-	128.	313.	7.50	-	25.K	2.1	8.6

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 21, 1970	750.	70.	130.
JAN. 5, 1971	130.	53.	190.
JULY 6......	110.	63.	200.

K Less than.

07188910 BUTLER CREEK NEAR SULPHUR SPRINGS, ARK.

LOCATION.--Lat 36°30'44", long 94°28'54", in NW¼NW¼ sec.35, T.21 N., R.33 W., McDonald County, Mo., at bridge on county road about 500 ft west of State Highway 59, 0.9 mile north of State line along Highway 59, 2.0 miles northwest of Sulphur Springs.

DRAINAGE AREA.--34.9 sq mi (at State line).

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	15.	40.	80.0	52.8	7.50	6.5	6.0	1.78	0.060	192.
OCT. 27......	13.	-	-	-	-	-	4.0	-	-	-
NOV. 9......	11.	-	-	-	-	-	7.5	-	-	-
NOV. 23......	7.	-	-	-	-	-	9.0	-	-	-
NOV. 30......	15.	-	-	-	-	-	9.5	-	-	-
DEC. 21......	9.	-	-	-	-	-	9.0	-	-	-
JAN. 5, 1971	6.	0	0	40.8	13.40	7.5	6.5	1.85	0.040	146.
JAN. 19......	6.	-	-	-	-	-	5.5	-	-	-
FEB. 2......	5.	-	-	-	-	-	5.5	-	-	-
FEB. 15......	10.	-	-	-	-	-	6.5	-	-	-
MAR. 15......	11.	-	-	-	-	-	5.0	-	-	-
MAR. 29......	12.	-	-	-	-	-	8.0	-	-	-
APR. 20......	17.	-	-	-	-	-	6.5	-	-	-
MAY 3......	15.	-	-	-	-	-	4.5	-	-	-
MAY 17......	20.	-	-	-	-	-	6.0	-	-	-
JUNE 14......	24.	-	-	-	-	-	6.0	-	-	-
JUNE 28......	25.	-	-	-	-	-	8.0	-	-	-
JULY 6......	25.	50.K	40.0	53.6	-	5.5	7.0	0.50	-	191.
JULY 20......	22.	-	-	-	-	-	7.5	-	-	-
AUG. 2......	20.	-	-	-	-	-	10.0	-	-	-
AUG. 16......	25.	-	-	-	-	-	-	-	-	-
SEP. 13......	22.	-	-	-	-	-	11.5	-	-	-
SEP. 27......	18.	-	-	-	-	-	11.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	163.	132.0	144.	208.	7.70	0	25.K	1.0	9.4
OCT. 27......	-	-	128.	226.	7.60	-	25.K	0.3	9.0
NOV. 9......	-	-	129.	244.	7.30	-	25.K	0.1	9.5
NOV. 23......	-	-	131.	217.	8.10	-	25.K	1.3	12.7
NOV. 30......	-	-	134.	255.	8.40	-	25.K	1.5	12.5
DEC. 21......	-	-	143.	278.	8.20	-	25.K	1.1	12.4
JAN. 5, 1971	157.	102.0	134.	229.	8.00	0	25.K	1.0	12.4
JAN. 19......	-	-	137.	273.	8.20	-	25.K	1.9	14.4
FEB. 2......	-	-	129.	255.	8.10	-	25.K	0.4	13.7
FEB. 15......	-	-	141.	212.	8.30	-	25.K	2.5	15.5
MAR. 15......	-	-	130.	200.	8.20	-	25.K	1.0	12.0
MAR. 29......	-	-	131.	234.	8.60	-	25.K	2.4	13.6
APR. 20......	-	-	134.	281.	8.30	-	25.K	3.3	10.5
MAY 3......	-	-	135.	215.	8.40	-	25.K	2.0	11.8
MAY 17......	-	-	148.	245.	8.00	-	25.K	1.7	8.8
JUNE 14......	-	-	140.	270.	8.20	-	25.K	1.6	9.4
JUNE 28......	-	-	140.	294.	8.20	-	25.K	1.6	8.5
JULY 6......	159.	134.0	142.	323.	8.10	0	25.K	1.5	9.4
JULY 20......	-	-	143.	345.	8.10	-	25.K	1.3	8.4
AUG. 2......	-	-	148.	303.	8.20	-	25.K	0.8	9.7
AUG. 16......	-	-	140.	269.	7.70	-	25.K	2.1	10.0
SEP. 13......	-	-	140.	267.	8.10	-	25.K	3.3	9.8
SEP. 27......	-	-	147.	342.	7.70	-	25.K	0.6	9.3

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 13, 1970	260.	73.	230.
JAN. 5, 1971	30.	30.	190.
JULY 6......	4.K	4.K	13.

K Less than.

07191179 SPAVINAW CREEK NORTH OF CHEROKEE CITY, ARK.

LOCATION.--Lat 36°32'50", long 94°29'19", in SW¼NE¼ sec.10, T.19 N., R.34 W., Benton County, at bridge on State Highway 99, 3.0 miles north of Cherokee City.

DRAINAGE AREA.--104 sq mi (at State line).

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	16.	-	-	-	-	-	6.5	-	-	-
OCT. 27......	13.	400.	0	33.6	3.60	2.7	11.5	1.97	0.170	111.
NOV. 9......	11.	-	-	-	-	-	8.5	-	-	-
NOV. 23......	8.	-	-	-	-	-	11.0	-	-	-
NOV. 30......	14.	-	-	-	-	-	8.5	-	-	-
DEC. 21......	9.	-	-	-	-	-	10.5	-	-	-
JAN. 5, 1971	3.	-	-	-	-	-	9.5	-	-	-
JAN. 19......	5.	0	0	38.4	1.20	1.5	7.5	2.57	0.060	194.
FEB. 2......	6.	-	-	-	-	-	7.5	-	-	-
FEB. 15......	9.	-	-	-	-	-	11.0	-	-	-
MAR. 15......	11.	-	-	-	-	-	8.5	-	-	-
MAR. 29......	12.	-	-	-	-	-	10.0	-	-	-
APR. 20......	14.	150.	50.0K	40.0	36.00	1.8	9.0	1.53	0.220	159.
MAY 3......	12.	-	-	-	-	-	6.5	-	-	-
MAY 17......	17.	-	-	-	-	-	9.0	-	-	-
JUNE 14......	18.	-	-	-	-	-	7.0	-	-	-
JUNE 28......	22.	-	-	-	-	-	9.0	-	-	-
JULY 6......	19.	-	-	-	-	-	9.5	-	-	-
JULY 20......	20.	50.K	30.0	49.6	-	5.0	8.5	0.80	-	187.
AUG. 2......	18.	-	-	-	-	-	11.0	-	-	-
AUG. 16......	22.	-	-	-	-	-	-	-	-	-
SEP. 27......	20.	-	-	-	-	-	13.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	-	-	98.	142.	6.90	-	25.K	0.3	8.5
OCT. 27......	99.	84.0	83.	157.	7.30	20.	25.K	0.2	8.3
NOV. 9......	-	-	86.	199.	7.10	-	25.K	0.1	9.1
NOV. 23......	-	-	90.	166.	7.90	-	25.K	1.2	11.1
NOV. 30......	-	-	99.	214.	8.00	-	25.K	1.3	10.6
DEC. 21......	-	-	102.	225.	7.70	-	25.K	0.5	10.4
JAN. 5, 1971	-	-	91.	169.	7.80	-	25.K	0.6	11.4
JAN. 19......	101.	96.0	91.	198.	7.60	0	25.K	1.2	12.2
FEB. 2......	-	-	103.	209.	8.00	-	25.K	0.9	12.3
FEB. 15......	-	-	103.	178.	6.20	-	25.K	1.3	11.7
MAR. 15......	-	-	95.	162.	8.10	-	25.K	2.0	12.5
MAR. 29......	-	-	76.	196.	8.40	-	25.K	1.2	13.2
APR. 20......	115.	100.0	102.	243.	7.90	5.	25.K	0.4	9.4
MAY 3......	-	-	104.	180.	8.00	-	25.K	0.6	9.8
MAY 17......	-	-	110.	178.	7.90	-	25.K	1.0	9.5
JUNE 14......	-	-	112.	227.	8.00	-	25.K	0.7	9.1
JUNE 28......	-	-	116.	255.	8.10	-	25.K	0.5	8.4
JULY 6......	-	-	119.	278.	7.90	-	25.K	0.9	9.1
JULY 20......	124.	120.0	122.	307.	8.00	-	25.K	0.8	9.2
AUG. 2......	-	-	129.	277.	7.90	-	25.K	0.5	8.6
AUG. 16......	-	-	124.	246.	7.60	-	25.K	2.1	9.9
SEP. 27......	-	-	124.	304.	7.20	-	25.K	0.5	8.7

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 27, 1970	5500.	900.	5000.
JAN. 19, 1971	5.K	4.K	7.
APR. 20......	5.K	3.	83.
JULY 20......	2600.	1800.	4.K

K Less than.

07195430 ILLINOIS RIVER SOUTH OF SILOAM SPRINGS, ARK.

LOCATION.--Lat 36°06'31", long 94°32'00", in SE¼NE¼ sec.31, T.17 N., R.33 W., Benton County, at bridge on State Highway 59, 5.0 miles south of Siloam Springs.

DRAINAGE AREA.--575 sq mi (at State line).

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	15.	-	-	-	-	-	6.5	-	-	-
OCT. 27......	14.	1200.	20.0	13.6	4.90	1.0	4.0	0.82	1.020	596.
NOV. 9......	11.	-	-	-	-	-	7.5	-	-	-
NOV. 23......	8.	-	-	-	-	-	9.0	-	-	-
NOV. 30......	15.	-	-	-	-	-	9.0	-	-	-
DEC. 21......	9.	-	-	-	-	-	9.5	-	-	-
JAN. 5, 1971	5.	-	-	-	-	-	8.0	-	-	-
JAN. 19......	4.	30.	0	32.0	3.60	3.8	6.5	2.70	0.350	137.
FEB. 2......	5.	-	-	-	-	-	7.0	-	-	-
FEB. 15......	8.	-	-	-	-	-	7.0	-	-	-
MAR. 15......	13.	-	-	-	-	-	7.5	-	-	-
MAR. 29......	13.	-	-	-	-	-	10.5	-	-	-
APR. 20......	15.	100.	100.0	40.8	2.70	4.9	8.0	1.48	0.760	149.
MAY 3......	13.	-	-	-	-	-	7.0	-	-	-
MAY 17......	-	-	-	-	-	-	7.0	-	-	-
JUNE 14......	23.	-	-	-	-	-	7.0	-	-	-
JUNE 28......	24.	-	-	-	-	-	8.0	-	-	-
JULY 6......	25.	-	-	-	-	-	10.0	-	-	-
JULY 20......	25.	50.	20.0K	44.0	-	6.0	8.5	1.20	-	204.
AUG. 2......	22.	-	-	-	-	-	11.0	-	-	-
AUG. 16......	24.	-	-	-	-	-	-	-	-	-
SEP. 13......	22.	-	-	-	-	-	10.5	-	-	-
SEP. 27......	24.	-	-	-	-	-	13.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	-	-	87.	147.	6.90	-	25.K	0.9	8.3
OCT. 27......	54.	34.0	43.	81.	6.70	160.	300.	5.0	6.5
NOV. 9......	-	-	53.	131.	6.90	-	110.	2.6	8.1
NOV. 23......	-	-	87.	158.	7.60	-	25.K	-	10.4
NOV. 30......	-	-	102.	204.	8.00	-	25.K	1.6	10.0
DEC. 21......	-	-	90.	193.	7.30	-	25.K	0.6	10.3
JAN. 5, 1971	-	-	66.	138.	7.20	-	25.K	1.6	11.9
JAN. 19......	95.	80.0	75.	185.	7.40	5.	25.K	0.7	11.3
FEB. 2......	-	-	99.	205.	7.70	-	25.K	0.9	12.4
FEB. 15......	-	-	84.	175.	7.20	-	25.K	1.6	11.5
MAR. 15......	-	-	89.	162.	8.30	-	25.K	1.9	11.8
MAR. 29......	-	-	97.	184.	8.40	-	25.K	1.9	12.7
APR. 20......	113.	102.0	100.	235.	7.70	5.	25.K	1.1	7.1
MAY 3......	-	-	91.	202.	7.80	-	25.K	2.7	7.5
MAY 17......	-	-	89.	178.	7.80	-	25.K	1.5	8.1
JUNE 14......	-	-	115.	222.	7.90	-	25.K	0.8	6.0
JUNE 28......	-	-	109.	250.	8.00	-	25.K	1.6	7.5
JULY 6......	-	-	108.	256.	7.60	-	25.K	0.8	7.0
JULY 20......	118.	110.0	113.	294.	7.90	-	25.K	0.6	7.2
AUG. 2......	-	-	116.	230.	7.90	-	25.K	0.6	6.6
AUG. 16......	-	-	115.	250.	7.80	-	25.K	4.2	9.6
SEP. 13......	-	-	113.	235.	7.90	-	25.K	0.6	6.8
SEP. 27......	-	-	129.	297.	7.60	-	25.K	2.0	8.9

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 27, 1970	8000.	22000.	13000.
JAN. 19, 1971	650.	120.	270.
APR. 20......	620.	350.	290.

K Less than.

07195850 FLINT CREEK NORTH OF SILOAM SPRINGS, ARK.

LOCATION.--Lat 36°20'45", long 94°35'32", in NE¼SE¼ sec.23, T.18 N., R.34 W., Benton County, at bridge on State Highway 99, upstream from confluence with Little Flint Creek, 3.0 miles northwest of Siloam Springs.

DRAINAGE AREA.--34.0 sq mi (above Little Flint Creek).

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	15.	-	-	-	-	-	6.5	-	-	-
OCT. 27......	14.	750.	20.0	21.6	3.40	0.8	4.5	1.97	0.260	149.
NOV. 9......	-	-	-	-	-	-	5.5	-	-	-
NOV. 23......	7.	-	-	-	-	-	8.5	-	-	-
NOV. 30......	14.	-	-	-	-	-	8.0	-	-	-
DEC. 21......	9.	-	-	-	-	-	8.0	-	-	-
JAN. 5, 1971	5.	-	-	-	-	-	7.5	-	-	-
JAN. 19......	5.	0	0	29.6	2.70	1.5	4.5	2.65	0.050	116.
FEB. 2......	5.	-	-	-	-	-	4.5	-	-	-
FEB. 15......	7.	-	-	-	-	-	6.5	-	-	-
MAR. 15......	12.	-	-	-	-	-	6.5	-	-	-
MAR. 29......	14.	-	-	-	-	-	8.0	-	-	-
APR. 20......	16.	200.	50.0K	27.2	1.30	2.0	5.5	0.84	0.170	99.
MAY 3......	15.	-	-	-	-	-	6.5	-	-	-
MAY 17......	20.	-	-	-	-	-	6.0	-	-	-
JUNE 14......	22.	-	-	-	-	-	6.0	-	-	-
JUNE 28......	27.	-	-	-	-	-	7.0	-	-	-
JULY 6......	25.	-	-	-	-	-	6.0	-	-	-
JULY 20......	-	50.K	60.0	37.6	-	5.0	5.0	0.50	-	131.
AUG. 2......	22.	-	-	-	-	-	8.0	-	-	-
AUG. 16......	24.	-	-	-	-	-	-	-	-	-
SEP. 13......	23.	-	-	-	-	-	7.5	-	-	-
SEP. 27......	20.	-	-	-	-	-	9.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	-	-	72.	136.	7.10	-	25.K	0.4	8.8
OCT. 27......	68.	54.0	58.	119.	6.70	50.	45.	0.7	8.4
NOV. 9......	-	-	64.	155.	7.20	-	25.K	0.8	9.8
NOV. 23......	-	-	76.	164.	8.10	-	25.K	1.5	12.2
NOV. 30......	-	-	79.	172.	8.00	-	25.K	1.6	11.0
DEC. 21......	-	-	81.	174.	7.80	-	25.K	1.6	11.6
JAN. 5, 1971	-	-	76.	144.	7.80	-	25.K	1.1	12.5
JAN. 19......	85.	74.0	78.	163.	7.70	0	25.K	1.5	13.1
FEB. 2......	-	-	86.	162.	8.20	-	25.K	1.5	13.1
FEB. 15......	-	-	83.	143.	6.20	-	25.K	2.0	12.4
MAR. 15......	-	-	69.	129.	8.60	-	25.K	1.0	10.9
MAR. 29......	-	-	76.	139.	8.30	-	25.K	2.2	11.2
APR. 20......	74.	68.0	67.	158.	7.80	5.	25.K	1.5	8.1
MAY 3......	-	-	74.	130.	7.90	-	25.K	0.8	8.8
MAY 17......	-	-	75.	140.	7.70	-	25.K	1.7	7.9
JUNE 14......	-	-	90.	172.	7.60	-	25.K	1.3	7.3
JUNE 28......	-	-	93.	198.	8.00	-	25.K	1.5	7.2
JULY 6......	-	-	96.	222.	7.60	-	25.K	1.1	7.1
JULY 20......	140.	94.0	95.	232.	7.90	-	25.K	0.8	7.6
AUG. 2......	-	-	95.	211.	7.90	-	25.K	1.3	8.1
AUG. 16......	-	-	88.	174.	7.60	-	25.K	2.4	8.2
SEP. 13......	-	-	87.	172.	7.80	-	25.K	3.1	7.4
SEP. 27......	-	-	99.	212.	7.50	-	25.K	1.8	7.8

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 27, 1970	9500.	5300.	-
JAN. 19, 1971	19.	5.	5.
APR. 20......	1300.	450.	130.
JULY 20......	62.	62.K	10.

K Less than.

07195860 SAGER CREEK NEAR SILOAM SPRINGS, ARK.

LOCATION.--Lat 36°11'50", long 94°35'00", in SE¼NE¼ sec.24, T.20 N., R.25 E., Delaware County, Okla., at bridge on county road 0.8 mile west of State line, 2.6 miles northwest of Siloam Springs.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	15.	-	-	-	-	-	11.0	-	-	-
OCT. 27......	14.	50.	0	18.4	14.90	4.1	6.5	1.31	0.060	62.
NOV. 9......	10.	-	-	-	-	-	10.0	-	-	-
NOV. 23......	6.	-	-	-	-	-	14.0	-	-	-
NOV. 30......	15.	-	-	-	-	-	12.5	-	-	-
DEC. 21......	9.	-	-	-	-	-	17.0	-	-	-
JAN. 5, 1971	7.	-	-	-	-	-	11.0	-	-	-
JAN. 19......	6.	0	0	36.0	2.70	4.7	5.0	2.70	0.100	151.
FEB. 2......	5.	-	-	-	-	-	14.0	-	-	-
FEB. 15......	5.	-	-	-	-	-	10.5	-	-	-
MAR. 15......	13.	-	-	-	-	-	13.0	-	-	-
MAR. 29......	12.	-	-	-	-	-	15.5	-	-	-
APR. 20......	15.	500.	50.0K	37.6	4.10	5.2	19.5	0	0.240	180.
MAY 3......	12.	-	-	-	-	-	15.5	-	-	-
MAY 17......	20.	-	-	-	-	-	18.0	-	-	-
JUNE 14......	20.	-	-	-	-	-	18.0	-	-	-
JUNE 28......	25.	-	-	-	-	-	22.0	-	-	-
JULY 6......	23.	-	-	-	-	-	23.0	-	-	-
JULY 20......	23.	50.K	20.0K	42.4	-	8.0	23.5	0.70	-	220.
AUG. 2......	19.	-	-	-	-	-	30.0	-	-	-
AUG. 16......	24.	-	-	-	-	-	-	-	-	-
SEP. 13......	19.	-	-	-	-	-	29.5	-	-	-
SEP. 27......	23.	-	-	-	-	-	22.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	-	-	87.	152.	6.90	-	25.K	2.4	5.0
OCT. 27......	66.	46.0	45.	110.	6.80	50.	25.K	6.0	6.8
NOV. 9......	-	-	87.	211.	6.80	-	25.K	5.8L	5.8
NOV. 23......	-	-	106.	208.	7.60	-	25.K	5.3	10.6
NOV. 30......	-	-	121.	275.	7.70	-	25.K	8.6	9.3
DEC. 21......	-	-	110.	248.	7.40	-	25.K	5.0	7.3
JAN. 5, 1971	-	-	89.	192.	7.30	-	25.K	8.4L	8.4
JAN. 19......	101.	90.0	92.	224.	7.50	0	25.K	2.8	9.3
FEB. 2......	-	-	125.	285.	7.90	-	25.K	3.3	11.2
FEB. 15......	-	-	123.	213.	7.10	-	25.K	2.9	8.3
MAR. 15......	-	-	119.	228.	7.90	-	25.K	5.5	11.6
MAR. 29......	-	-	129.	264.	8.00	-	25.K	6.7	11.5
APR. 20......	111.	94.0	138.	337.	7.40	15.	25.K	4.5	3.3
MAY 3......	-	-	134.	250.	7.50	-	25.K	2.4	3.2
MAY 17......	-	-	126.	261.	7.70	-	25.K	3.8	6.0
JUNE 14......	-	-	127.	294.	7.70	-	-	9.9	2.7
JUNE 28......	-	-	134.	344.	7.70	-	25.K	4.5	5.9
JULY 6......	-	-	130.	370.	7.40	-	25.K	3.1	4.4
JULY 20......	132.	106.0	137.	416.	7.70	-	25.K	5.1	5.4
AUG. 2......	-	-	149.	333.	7.60	-	25.K	4.1	4.6
AUG. 16......	-	-	130.	377.	7.60	-	25.K	4.9	5.6
SEP. 13......	-	-	183.	337.	7.60	-	25.K	3.7	5.2
SEP. 27......	-	-	110.	366.	7.50	-	25.K	2.9	6.2

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 27, 1970	45000.	19000.	7700.
JAN. 19, 1971	6800.	1200.	500.
APR. 20......	600000.	12000.	1600.
JULY 20......	18000.	300.	150.

K Less than.

07196900 BARON FORK AT DUTCH MILLS, ARK.

LOCATION.--Lat 35°52'48", long 94°29'11", on line between secs.21 and 22, T.14 N., R.33 W., Washington County, at gaging station, near right bank on downstream side of bridge on State Highway 59 at Dutch Mills, 2.2 miles downstream from Fly Creek, and 2.9 miles upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--46.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1960 to September 1961.
Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	19.	-	-	-	-	-	6.5	-	-	-
OCT. 27......	14.	500.	20.0	24.0	3.90	2.8	5.0	2.34	0.130	104.
NOV. 9......	10.	-	-	-	-	-	5.5	-	-	-
NOV. 23......	9.	-	-	-	-	-	6.5	-	-	-
NOV. 30......	14.	-	-	-	-	-	9.5	-	-	-
DEC. 21......	6.	-	-	-	-	-	7.0	-	-	-
JAN. 5, 1971	5.	-	-	-	-	-	6.5	-	-	-
JAN. 19......	-	0	0	40.0	3.60	5.0	6.5	2.67	0.120	150.
FEB. 1......	5.	-	-	-	-	-	5.5	-	-	-
FEB. 15......	9.	-	-	-	-	-	7.0	-	-	-
MAR. 15......	14.	-	-	-	-	-	5.5	-	-	-
MAR. 29......	15.	-	-	-	-	-	6.0	-	-	-
APR. 20......	15.	100.	50.0K	49.6	4.90	8.5	5.0	0.62	0.180	177.
MAY 3......	12.	-	-	-	-	-	3.0	-	-	-
MAY 17......	23.	-	-	-	-	-	4.0	-	-	-
JUNE 14......	24.	-	-	-	-	-	5.0	-	-	-
JUNE 28......	27.	-	-	-	-	-	6.0	-	-	-
JULY 6......	25.	-	-	-	-	-	11.0	-	-	-
JULY 20......	25.	50.K	20.0K	52.0	-	7.0	3.0	0.60	-	177.
AUG. 2......	21.	-	-	-	-	-	7.0	-	-	-
AUG. 16......	26.	-	-	-	-	-	-	-	-	-
SEP. 13......	23.	-	-	-	-	-	6.0	-	-	-
SEP. 27......	24.	-	-	-	-	-	10.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	-	-	89.	153.	7.10	-	25.K	1.1	9.4
OCT. 27......	76.	60.0	58.	129.	7.00	50.	35.	0.9	8.5
NOV. 9......	-	-	69.	155.	7.20	-	25.K	0.5	9.6
NOV. 23......	-	-	100.	182.	7.70	-	25.K	-	11.5
NOV. 30......	-	-	109.	231.	8.30	-	25.K	1.7	12.2
DEC. 21......	-	-	111.	218.	7.60	-	25.K	0.5	10.0
DEC. 29......	-	-	18.	-	-	-	60.	2.6	7.8
JAN. 5, 1971	-	-	80.	169.	7.50	-	25.K	1.9	13.9
JAN. 19......	115.	100.0	93.	215.	7.80	0	25.K	0.8	12.5
FEB. 1......	-	-	121.	235.	7.70	-	25.K	1.6	13.7
FEB. 15......	-	-	95.	190.	7.00	-	25.K	0.9	11.5
MAR. 15......	-	-	107.	180.	8.60	-	25.K	2.3	14.0
MAR. 29......	-	-	115.	220.	8.60	-	25.K	3.1	15.3
APR. 20......	136.	114.0	120.	268.	7.70	5.	25.K	1.7	6.3
MAY 3......	-	-	116.	202.	7.90	-	25.K	1.1	6.9
MAY 17......	-	-	114.	213.	8.30	-	25.K	2.7	11.5
JUNE 14......	-	-	131.	263.	8.00	-	25.K	1.4	9.6
JUNE 28......	-	-	133.	273.	8.10	-	25.K	0.3	11.5
JULY 6......	-	-	132.	294.	7.60	-	25.K	2.0	5.6
JULY 20......	140.	130.0	135.	303.	7.90	-	25.K	4.0	8.3
AUG. 2......	-	-	130.	244.	7.70	-	25.K	2.3	7.0
AUG. 16......	-	-	129.	243.	7.90	-	25.K	5.6	10.0
SEP. 13......	-	-	132.	246.	7.80	-	25.K	1.4	6.6
SEP. 27......	-	-	123.	309.	7.70	-	25.K	2.6	9.7

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 27, 1970	17000.	1400.	4300.
JAN. 19, 1971	34.K	27.	68.
APR. 20......	640.	300.	190.

K Less than.

07247012 POTEAU RIVER SOUTH OF BATES, ARK.

LOCATION.--Lat 35°53'44", long 94°23'35", in SW¼NW¼ sec.27, T.3 N., R.32 W., Scott County, at bridge on county road, 0.9 mile south of Bates.

DRAINAGE AREA.--251 sq mi (station 07247010 near Bates).

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 5, 1970	21.	-	-	-	-	-	2.5	-	-	-
OCT. 19......	16.	-	-	-	-	-	5.5	-	-	-
DEC. 14......	8.	-	-	-	-	-	8.0	-	-	-
JAN. 11, 1971	6.	-	-	-	-	-	5.5	-	-	-
FEB. 23......	9.	-	-	-	-	-	5.5	-	-	-
MAR. 23......	11.	-	-	-	-	-	3.0	-	-	-
APR. 12......	22.	-	-	-	-	-	8.0	-	-	-
APR. 27......	20.	-	-	-	-	-	3.5	-	-	-
MAY 10......	21.	-	-	-	-	-	5.0	-	-	-
JUNE 8......	26.	900.	50.0	8.0	1.90	10.0	6.0	0.10K	0.100K	71.
JUNE 23......	26.	-	-	-	-	-	4.0	-	-	-
JULY 27......	28.	-	-	-	-	-	8.0	-	-	-
AUG. 11......	28.	-	-	-	-	-	7.0	-	-	-
AUG. 18......	28.	-	-	-	-	-	4.5	-	-	-
SEP. 22......	19.	-	-	-	-	-	5.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 5, 1970	-	-	20.	50.	6.20	-	25.K	1.7	7.8
OCT. 19......	-	-	20.	58.	6.50	-	40.	2.2	8.6
DEC. 14......	-	-	20.	56.	6.70	-	25.K	2.2	11.0
JAN. 11, 1971	-	-	11.	48.	6.20	-	25.K	1.1	12.1
FEB. 23......	-	-	14.	61.	6.80	-	75.	1.7	10.5
MAR. 23......	-	-	12.	46.	6.90	-	25.K	1.3	10.3
APR. 12......	-	-	20.	70.	6.70	-	25.K	3.3	9.6
APR. 27......	-	-	13.	48.	6.70	-	35.	3.2	7.9
MAY 10......	-	-	21.	60.	6.30	-	40.	1.7	6.5
JUNE 8......	28.	20.0	22.	-	6.50	5.	-	1.9	6.2
JUNE 23......	-	-	20.	71.	6.70	-	40.	1.8	4.7
JULY 27......	-	-	27.	-	7.30	-	25.	2.8	7.2
AUG. 11......	-	-	29.	77.	7.40	-	25.	3.2	6.2
AUG. 18......	-	-	20.	68.	6.80	-	30.	3.0	8.6
SEP. 22......	-	-	34.	-	6.80	-	25.K	1.5	5.5

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
JUNE 8, 1971	4000.	4.K	4.K

K Less than.

07249400 JAMES FORK NEAR HACKETT, ARK.

LOCATION.--Lat 35°09'45", long 94°24'25", in NW¼NW¼ sec.34, T.6 N., R.32 W., Sebastian County, at gaging station near left bank on downstream side of bridge on State Highway 45, 1.7 miles south of Hackett, 2 miles downstream from Elder Branch, 2 miles upstream from small tributary, and 3.6 miles upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--147 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1960 to September 1961.
Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 5, 1970	22.	-	-	-	-	-	4.0	-	-	-
OCT. 19......	19.	-	-	-	-	-	9.0	-	-	-
DEC. 14......	7.	-	-	-	-	-	8.5	-	-	-
JAN. 11, 1971	7.	-	-	-	-	-	5.5	-	-	-
FEB. 23......	9.	-	-	-	-	-	7.0	-	-	-
MAR. 23......	14.	-	-	-	-	-	9.0	-	-	-
APR. 13......	19.	-	-	-	-	-	10.5	-	-	-
APR. 28......	18.	-	-	-	-	-	5.0	-	-	-
MAY 11......	19.	-	-	-	-	-	6.0	-	-	-
JUNE 8......	29.	200.	100.0	12.0	9.70	24.0	9.0	0.10K	0.100K	233.
JUNE 23......	28.	-	-	-	-	-	7.0	-	-	-
JULY 27......	29.	-	-	-	-	-	13.0	-	-	-
AUG. 11......	28.	-	-	-	-	-	5.0	-	-	-
AUG. 18......	27.	-	-	-	-	-	9.0	-	-	-
SEP. 22......	20.	-	-	-	-	-	12.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 5, 1970	-	-	31.	129.	6.20	-	30.	1.2	7.8
OCT. 19......	-	-	30.	111.	6.90	-	25.K	0.7	8.8
DEC. 14......	-	-	53.	170.	7.40	-	25.K	0.9	11.0
JAN. 11, 1971	-	-	20.	129.	6.20	-	25.K	1.3	11.8
FEB. 23......	-	-	25.	138.	6.80	-	35.	1.0	10.9
MAR. 23......	-	-	45.	147.	7.10	-	25.K	0.5	9.5
APR. 13......	-	-	56.	196.	7.10	-	25.K	1.5	8.4
APR. 28......	-	-	27.	120.	7.10	-	30.	-	7.9
MAY 11......	-	-	31.	141.	6.90	-	25.K	1.5	7.6
JUNE 8......	70.	30.0	102.	-	7.40	10.	-	2.0	6.9
JUNE 23......	-	-	91.	270.	7.40	-	25.K	4.2	8.4
JULY 27......	-	-	155.	-	8.30	-	25.K	1.9	8.1
AUG. 11......	-	-	30.	125.	7.30	-	90.	1.5	6.4
AUG. 18......	-	-	72.	236.	7.10	-	25.K	2.5	8.3
SEP. 22......	-	-	170.	-	7.80	-	25.K	2.5	5.4

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
JUNE 8, 1971	3100.	3100.L	97.

K Less than.
L Greater than.

07249440 POTEAU RIVER NEAR FORT SMITH, ARK.

LOCATION.--Lat 35°20'43", long 94°27'09", in SE¼SW¼ sec.9, T.10 N., R.27 E., LeFlore County, Okla., at bridge on State Highway 9, 1.2 miles west of State line, and 2.0 miles southwest of Fort Smith.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 6, 1970	22.	-	-	-	-	-	4.0	-	-	-
OCT. 19......	-	-	-	-	-	-	6.0	-	-	-
DEC. 15......	9.	-	-	-	-	-	5.0	-	-	-
JAN. 11, 1971	6.	-	-	-	-	-	7.0	-	-	-
FEB. 24......	9.	-	-	-	-	-	6.0	-	-	-
MAR. 23......	14.	-	-	-	-	-	5.0	-	-	-
APR. 13......	19.	-	-	-	-	-	7.5	-	-	-
APR. 28......	18.	-	-	-	-	-	3.5	-	-	-
MAY 11......	20.	-	-	-	-	-	6.0	-	-	-
JUNE 8......	26.	1100.	50.0K	5.6	3.90	17.0	5.0	0.20	0.100K	97.
JUNE 24......	31.	-	-	-	-	-	5.0	-	-	-
JULY 27......	31.	-	-	-	-	-	8.0	-	-	-
AUG. 11......	28.	-	-	-	-	-	11.0	-	-	-
AUG. 18......	29.	-	-	-	-	-	5.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 6, 1970	-	-	23.	64.	6.30	-	70.	0.7	6.8
OCT. 19......	-	-	18.	47.	6.70	-	45.	1.1	8.5
DEC. 15......	-	-	16.	50.	6.60	-	25.	1.4	10.9
JNA. 11, 1971	-	-	16.	66.	6.50	-	80.	0.7	11.0
FEB. 24......	-	-	17.	73.	6.40	-	180.	1.3	9.6
MAR. 23......	-	-	12.	71.	6.90	-	35.	1.8	10.7
APR. 13......	-	-	23.	88.	6.50	-	35.	1.7	9.3
APR. 28......	-	-	13.	50.	6.80	-	90.	-	8.1
MAY 11......	-	-	26.	85.	7.30	-	45.	1.1	6.6
JUNE 8......	30.	14.0	24.	-	6.70	50.	-	3.2	9.8
JUNE 24......	-	-	32.	94.	7.50	-	30.	2.4	8.0
JULY 27......	-	-	38.	-	7.70	-	55.	3.4	8.6
AUG. 11......	-	-	20.	77.	7.30	-	45.	1.9	6.6
AUG. 18......	-	-	15.	73.	6.40	-	40.	3.4	9.3
SEP. 23......	-	-	33.	-	-	-	60.	4.6	5.6

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
JUNE 8, 1971	1900.	170.	100.

K Less than.

07249703 LEE CREEK NEAR NATURAL DAM, ARK.

LOCATION.--Lat 35°38'03", long 94°24'18", in SE¼NW¼ sec.16, T.11 N., R.32 W., Crawford County, at left bank of stream, 1.0 mile southwest of Natural Dam.

DRAINAGE AREA.--168 sq mi (at Natural Dam).

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	15.	-	-	-	-	-	6.0	-	-	-
OCT. 27......	15.	750.	20.0	6.4	2.90	0.1	4.0	0.13	0.390	249.
NOV. 9......	10.	-	-	-	-	-	3.0	-	-	-
NOV. 23......	5.	-	-	-	-	-	5.5	-	-	-
NOV. 30......	14.	-	-	-	-	-	5.0	-	-	-
DEC. 21......	8.	-	-	-	-	-	4.5	-	-	-
JAN. 5, 1971	5.	-	-	-	-	-	4.0	-	-	-
JAN. 19......	5.	250.	50.0	8.0	3.40	4.2	2.0	0.12	0.050	52.
FEB. 1......	5.	-	-	-	-	-	2.0	-	-	-
FEB. 15......	5.	-	-	-	-	-	3.5	-	-	-
MAR. 15......	13.	-	-	-	-	-	3.0	-	-	-
MAR. 29......	14.	-	-	-	-	-	5.0	-	-	-
APR. 20......	15.	1000.	50.0K	10.4	1.90	2.4	5.0	0.02	0.470	106.
MAY 3......	12.	-	-	-	-	-	2.0	-	-	-
MAY 17......	22.	-	-	-	-	-	5.0	-	-	-
JUNE 14......	24.	-	-	-	-	-	4.0	-	-	-
JUNE 28......	26.	-	-	-	-	-	5.0	-	-	-
JULY 6......	27.	-	-	-	-	-	11.0	-	-	-
JULY 20......	30.	50.K	20.0K	14.4	-	4.0	6.5	0.10	-	81.
AUG. 2......	22.	-	-	-	-	-	12.0	-	-	-
AUG. 16......	24.	-	-	-	-	-	-	-	-	-
SEP. 13......	23.	-	-	-	-	-	8.5	-	-	-
SEP. 27......	23.	-	-	-	-	-	10.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	-	-	36.	57.	6.40	-	25.K	0.9	9.6
OCT. 27......	28.	16.0	18.	41.	6.40	80.	100.	2.5	8.7
NOV. 9......	-	-	19.	46.	6.60	-	25.K	1.4	10.0
NOV. 23......	-	-	28.	60.	7.30	-	25.K	1.2	12.3
NOV. 30......	-	-	28.	75.	7.60	-	25.K	1.8	10.5
DEC. 21......	-	-	32.	66.	7.20	-	25.K	0.9	11.3
JAN. 5, 1971	-	-	18.	49.	6.70	-	25.K	1.0	12.7
JAN. 19......	34.	20.0	23.	57.	6.30	15.	25.K	1.4	12.8
FEB. 1......	-	-	31.	68.	6.60	-	25.K	1.6	12.7
FEB. 15......	-	-	29.	57.	6.30	-	25.K	1.0	12.5
MAR. 15......	-	-	28.	59.	7.50	-	25.K	0.7	10.9
MAR. 29......	-	-	35.	68.	7.70	-	25.K	1.5	11.3
APR. 20......	34.	26.0	31.	84.	7.20	40.	70.	2.8	8.8
MAY 3......	-	-	30.	56.	7.50	-	25.K	2.3	9.4
MAY 17......	-	-	24.	65.	7.80	-	25.K	1.5	9.6
JUNE 14......	-	-	34.	78.	7.30	-	25.K	2.4	7.9
JUNE 28......	-	-	40.	98.	7.90	-	25.K	-	8.6
JULY 6......	-	-	48.	111.	7.20	-	25.K	1.8	8.1
JULY 20......	44.	36.0	38.	121.	7.50	-	25.K	1.6	9.2
AUG. 2......	-	-	38.	101.	7.20	-	25.K	2.0	8.0
AUG. 16......	-	-	40.	86.	7.40	-	25.K	1.8	9.6
SEP. 13......	-	-	36.	87.	7.30	-	25.K	1.6	8.4
SEP. 27......	-	-	43.	160.	7.00	-	25.K	1.7	8.8

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 27, 1970	6000.	1600.	1700.
JAN. 19, 1971	44.	12.K	25.
APR. 20......	46000.	40000.	-

K Less than.

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.

(Irrigation network and tritium station)

LOCATION.--Lat 35°20'56", long 94°17'54", in sec.28, T.8 N., R.31 W., Sebastian County, at gaging station in Dam No. 13 control house on right bank, and at mile 308.9.
DRAINAGE AREA.--150,547 sq mi, of which 22,241 sq mi is probably noncontributing.
PERIOD OF RECORD.--Chemical and biological analyses: October 1969 to September 1971.
Water temperature: October 1969 to September 1971.
Sediment discharge: October 1970 to September 1971.
REMARKS.--Sediment data furnished by Corps of Engineers, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL MERCURY (HG) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	NITRITE (NO2) (MG/L)	NITRATE (NO3) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT. 21...	29100	--	<.5	100	0	31	69	.01	2.5	.01	.10
DEC. 16...	3210	0	<.5	86	0	23	42	.00	2.7	.62	.090
JAN. 13...	24700	--	--	106	0	43	60	.06	3.4	.04	.20
27...	14200	--	--	98	0	27	37	--	3.6	.00	.19
FEB. 24...	37700	--	--	92	0	27	50	.06	2.4	.00	.10
MAR. 10...	38500	--	--	108	0	32	52	.07	3.3	.01	.14
APR. 14...	7690	<10	--	132	0	46	110	.00	1.0	.00	.030
MAY 12...	12100	--	--	76	0	23	72	.04	.3	.01	.23
JUNE 30...	26000	--	--	136	0	63	180	.06	.2	.04	.090
JULY 21...	15700	--	--	120	0	49	110	.09	.1	.00	.040
AUG. 18...	8270	--	--	124	0	42	90	.04	.3	.00	.28
SEP. 22...	17600	--	--	108	0	30	100	.06	.2	.04	.11

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT. 21...	111	28	82	425	7.8	70	18	1.0	E39000	E35000	540
DEC. 16...	88	16	72	328	7.7	28	16	>7.0	E31000	--	E2200
JAN. 13...	120	31	85	427	7.8	60	11	2.0	11500	2900	1600
27...	100	24	80	346	7.8	11	11	1.0	12000	3000	720
FEB. 24...	110	30	75	374	7.5	28	14	2.0	7000	E670	130
MAR. 10...	120	55	88	411	7.6	25	13	2.0	E10500	1100	152
APR. 14...	150	44	108	634	8.0	3	14	3.0	E3200	E100	--
MAY 12...	85	22	62	427	8.1	6	16	3.2	E19000	E27000	>2000
JUNE 30...	180	64	112	889	7.7	10	10	2.4	28000	--	500
JULY 21...	160	63	98	652	7.7	5	11	2.1	24000	E1200	E36
AUG. 18...	140	36	102	578	7.8	15	12	3.9	10000	E330	E4
SEP. 22...	120	36	88	559	7.7	4	11	2.2	24000	6700	--

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT. 21...	16.5	--	8.2	9.6	98
DEC. 16...	8.0	--	7.9	6.0	50
JAN. 13...	5.0	--	--	11.0	86
27...	5.5	--	7.6	--	--
FEB. 24...	6.5	--	8.0	10.7	88
MAR. 10...	7.0	--	8.1	11.2	92
APR. 14...	15.5	620	8.7	8.6	86
MAY 12...	19.0	386	--	8.0	85
JUNE 30...	27.0	890	--	7.2	90
JULY 21...	29.0	--	7.9	3.2	42
AUG. 18...	27.5	--	8.0	7.5	94
SEP. 22...	21.5	--	7.4	7.4	83

ANALYSES OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
OCT. 13...	.00	.00	.00	.05	.00	.00	.00	.00	.00
NOV. 18...	.00	.00	.00	.01	.00	.00	.00	.00	.00
DEC. 16...	.00	.00	.00	.00	.00	.00	.00	.00	.00
JAN. 13...	.00	.00	.00	.00	.00	.00	.00	.00	.00
FEB. 11...	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR. 18...	.00	.00	.00	.00	.00	.00	.00	.00	.00
APR. 14...	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 12...	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUNE 16...	.00	.00	.00	.00	.00	.00	.00	.00	.00
JULY 23...	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG. 18...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLORDANE (UG/L)	TOXAPHENE (UG/L)	PARATHION (UG/L)	METHYL PARATHION (UG/L)	MALATHION (UG/L)	DIAZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
OCT. 13...	.00	.00	.00	.00	.00	.00	.00	.00	.06
NOV. 18...	.00	.00	.00	.00	.00	.00	.00	.00	.00
DEC. 16...	.00	.00	.00	.00	.00	.00	.00	.00	.00
JAN. 13...	.00	.00	.00	.00	.00	.00	.00	.00	.03
FEB. 11...	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR. 18...	.00	.00	.00	.00	.00	.00	.00	.00	.00
APR. 14...	.00	.00	.00	.00	.00	.02	.00	.00	.01
MAY 12...	.00	.00	.00	.00	.00	.00	.00	.00	.01
JUNE 16...	.00	.00	.00	.00	.00	.00	.00	.00	.01
JULY 23...	.00	--	.00	.00	.00	.00	.00	.00	.01
AUG. 18...	.00	.00	.00	.00	.00	.00	.00	.00	.02

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.--Continued

ANALYSES OF ADDITIONAL SAMPLES

DATE	HEXA-VALENT CHRO-MIUM (CR6) (UG/L) 01032	TOTAL ARSENIC (AS) (UG/L) 01002	TOTAL LEAD (PB) (UG/L) 01051	TOTAL ZINC (ZN) (UG/L) 01092	TOTAL COBALT (CO) (UG/L) 01037	TOTAL CAD-MIUM (CD) (UG/L) 01027
MAY						
01-10	0	<10	2	10	0	0
11-20	0	<10	2	10	0	0
21...	0	<10	1	20	0	0
23-28	0	<10	1	20	0	0
31...	0	<10	1	10	0	0
JUNE						
01-10	0	<10	1	10	0	0
11-20	0	<10	0	20	0	0
21-29	1	<10	0	10	0	0
30...	0	<10	0	10	0	0
JULY						
01-10	0	<10	0	10	0	0
11-20	0	<10	0	10	0	0
21-30	0	<10	0	10	0	0
31...	0	<10	0	10	0	0
AUG.						
01-04	0	<10	3	10	0	0
06-10	0	<10	30	10	0	0
11-20	0	<10	0	10	0	0
21-30	0	<10	0	10	0	0
31...	0	10	7	10	0	3

< Less than.

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER MAX	OCTOBER MIN	OCTOBER MEAN	NOVEMBER MAX	NOVEMBER MIN	NOVEMBER MEAN	DECEMBER MAX	DECEMBER MIN	DECEMBER MEAN	JANUARY MAX	JANUARY MIN	JANUARY MEAN
1	362	330	349	---	---	---	---	---	---	---	---	---
2	361	317	337	---	---	---	---	---	---	---	---	---
3	428	314	371	---	---	---	---	---	---	---	---	---
4	471	431	458	---	---	---	---	---	---	---	---	---
5	468	464	466	---	---	---	---	---	---	---	---	---
6	505	461	477	---	---	---	---	---	---	---	---	---
7	514	476	490	---	---	---	---	---	---	---	---	---
8	539	459	487	---	---	---	---	---	---	---	---	---
9	472	270	348	---	---	---	---	---	---	---	---	---
10	288	150	203	---	---	---	---	---	---	---	---	---
11	221	159	198	---	---	---	---	---	---	---	---	---
12	304	220	276	---	---	---	---	---	---	---	---	---
13	361	301	324	---	---	---	---	---	---	---	---	---
14	382	346	366	---	---	---	---	---	---	458	426	442
15	375	329	357	---	---	---	---	---	---	429	381	397
16	334	262	297	---	---	---	---	---	---	389	331	359
17	505	313	376	---	---	---	---	---	---	368	326	348
18	536	462	495	---	---	---	---	---	---	382	330	360
19	513	455	484	---	---	---	---	---	---	369	309	352
20	462	438	450	---	---	---	---	---	---	400	346	374
21	467	397	417	---	---	---	---	---	---	384	356	368
22	455	419	441	---	---	---	---	---	---	367	335	357
23	423	357	393	---	---	---	---	---	---	379	313	346
24	357	223	291	---	---	---	---	---	---	386	320	348
25	219	171	187	---	---	---	---	---	---	387	317	347
26	242	177	200	---	---	---	---	---	---	379	297	338
27	256	158	210	---	---	---	---	---	---	356	300	339
28	176	152	160	---	---	---	---	---	---	366	316	353
29	258	184	229	---	---	---	---	---	---	381	299	336
30	288	264	275	---	---	---	---	---	---	379	303	343
31	---	---	---	---	---	---	---	---	---	380	318	346
MONTH	539	150	347	---	---	---	---	---	---	---	---	---

DAY	FEBRUARY MAX	FEBRUARY MIN	FEBRUARY MEAN	MARCH MAX	MARCH MIN	MARCH MEAN	APRIL MAX	APRIL MIN	APRIL MEAN	MAY MAX	MAY MIN	MAY MEAN
1	386	316	353	444	372	421	---	---	---	341	155	233
2	392	350	371	442	406	433	---	---	---	413	325	366
3	403	353	382	440	428	436	---	---	---	348	294	325
4	409	311	365	460	402	440	---	---	---	315	277	292
5	358	276	318	476	440	463	---	---	---	351	275	297
6	332	313	324	481	461	475	---	---	---	318	264	299
7	314	304	310	483	419	449	---	---	---	421	273	344
8	306	288	298	468	430	452	---	---	---	507	393	467
9	306	285	296	450	394	414	---	---	---	444	384	415
10	331	297	314	405	403	404	---	---	---	397	381	391
11	366	306	328	527	441	483	---	---	---	---	---	---
12	361	297	320	764	522	674	---	---	---	498	304	444
13	345	303	321	688	484	579	---	---	---	561	417	497
14	334	268	297	581	491	526	---	---	---	536	396	500
15	314	246	282	619	421	521	670	650	660	513	403	487
16	288	242	267	548	422	469	679	663	672	496	442	466
17	343	267	284	648	444	512	728	666	690	457	387	421
18	365	295	334	595	391	478	751	665	707	414	328	367
19	362	296	329	392	274	318	742	668	706	391	289	342
20	396	318	356	362	272	320	741	657	698	430	308	380
21	365	319	339	317	275	301	762	640	698	---	---	---
22	345	305	327	423	317	376	631	507	587	---	---	---
23	400	274	345	498	326	401	600	456	520	---	---	---
24	386	314	350	632	478	546	---	---	---	---	---	---
25	390	302	351	539	429	477	509	413	474	---	---	---
26	392	312	358	419	323	373	451	331	400	---	---	---
27	426	382	404	380	328	353	366	290	332	---	---	---
28	432	414	424	---	---	---	347	245	288	---	---	---
29	---	---	---	---	---	---	331	123	253	---	---	---
30	---	---	---	---	---	---	296	142	218	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	432	242	334	764	272	467	---	---	---	---	---	---

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	596	512	554	---	---	---
2	---	---	---	---	---	---	598	496	558	---	---	---
3	---	---	---	---	---	---	608	552	584	614	584	611
4	---	---	---	---	---	---	600	496	572	613	607	609
5	---	---	---	---	---	---	---	---	---	607	595	605
6	---	---	---	---	---	---	---	---	---	603	567	598
7	---	---	---	---	---	---	---	---	---	624	602	608
8	---	---	---	---	---	---	432	364	403	634	578	612
9	---	---	---	---	---	---	446	418	436	671	579	636
10	---	---	---	---	---	---	470	428	450	789	673	729
11	---	---	---	---	---	---	480	430	450	790	742	775
12	---	---	---	---	---	---	492	446	466	782	768	773
13	---	---	---	---	---	---	---	---	---	773	683	735
14	---	---	---	---	---	---	---	---	---	739	637	678
15	---	---	---	---	---	---	---	---	---	688	614	646
16	---	---	---	---	---	---	---	---	---	658	554	589
17	---	---	---	---	---	---	---	---	---	593	541	572
18	---	---	---	---	---	---	---	---	---	575	531	553
19	---	---	---	---	---	---	---	---	---	556	478	524
20	---	---	---	---	---	---	---	---	---	524	434	483
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	624	556	742	---	---	---	455	359	394
24	---	---	---	648	602	625	---	---	---	460	386	425
25	---	---	---	634	592	627	---	---	---	492	424	455
26	---	---	---	630	606	622	---	---	---	---	---	---
27	---	---	---	628	612	622	---	---	---	---	---	---
28	---	---	---	638	626	629	---	---	---	---	---	---
29	---	---	---	644	620	631	---	---	---	---	---	---
30	---	---	---	628	542	587	---	---	---	---	---	---
31	---	---	---	604	514	555	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PH, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.9	7.6	7.8	---	---	---	---	---	---	---	---	---
2	7.9	7.6	7.8	---	---	---	---	---	---	---	---	---
3	8.0	7.6	7.8	---	---	---	---	---	---	---	---	---
4	7.9	7.7	7.9	---	---	---	---	---	---	---	---	---
5	8.0	7.8	7.9	---	---	---	---	---	---	---	---	---
6	8.0	7.8	8.0	---	---	---	---	---	---	---	---	---
7	8.1	7.9	8.0	---	---	---	---	---	---	---	---	---
8	8.1	7.7	8.0	---	---	---	---	---	---	---	---	---
9	7.8	7.5	7.6	---	---	---	---	---	---	---	---	---
10	7.6	7.3	7.5	---	---	---	---	---	---	---	---	---
11	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
12	7.6	7.5	7.5	---	---	---	---	---	---	---	---	---
13	7.7	7.5	7.6	---	---	---	---	---	---	---	---	---
14	7.8	7.6	7.7	---	---	---	---	---	---	---	---	---
15	8.0	7.7	7.8	---	---	---	---	---	---	---	---	---
16	7.9	7.7	7.8	---	---	---	---	---	---	---	---	---
17	8.1	7.8	7.9	---	---	---	---	---	---	---	---	---
18	8.2	8.1	8.1	---	---	---	---	---	---	---	---	---
19	8.3	8.2	8.2	---	---	---	---	---	---	---	---	---
20	8.3	8.1	8.2	---	---	---	---	---	---	---	---	---
21	8.2	8.1	8.2	---	---	---	---	---	---	7.5	7.1	7.2
22	8.3	8.2	8.3	---	---	---	---	---	---	7.1	6.9	7.0
23	8.2	7.9	8.1	---	---	---	---	---	---	7.3	6.8	7.0
24	7.8	7.4	7.6	---	---	---	---	---	---	7.1	6.7	6.9
25	7.3	7.0	7.1	---	---	---	---	---	---	7.1	6.8	7.0
26	7.3	7.0	7.1	---	---	---	---	---	---	7.0	6.7	6.9
27	7.3	6.9	7.2	---	---	---	---	---	---	8.6	6.8	7.4
28	6.9	6.7	6.8	---	---	---	---	---	---	7.6	6.5	7.2
29	7.4	6.9	7.1	---	---	---	---	---	---	7.6	6.2	7.0
30	7.4	7.3	7.3	---	---	---	---	---	---	7.1	6.3	6.7
31	---	---	---	---	---	---	---	---	---	7.5	6.6	6.9
MONTH	8.3	6.7	7.7	---	---	---	---	---	---	---	---	---

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.--Continued

PH, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	6.8	7.5	---	---	---	---	---	---	7.7	7.1	7.4
2	7.9	7.3	7.6	---	---	---	---	---	---	8.1	7.4	7.7
3	7.8	7.5	7.7	---	---	---	---	---	---	8.0	7.2	7.6
4	---	---	---	---	---	---	---	---	---	8.0	7.2	7.6
5	---	---	---	7.8	6.5	7.2	---	---	---	8.1	7.2	7.7
6	---	---	---	7.8	7.0	7.3	---	---	---	8.0	7.4	7.6
7	---	---	---	7.4	6.9	7.2	---	---	---	8.0	7.2	7.5
8	---	---	---	8.0	7.1	7.5	---	---	---	8.7	7.4	7.9
9	---	---	---	7.9	7.3	7.6	---	---	---	8.2	7.3	7.9
10	---	---	---	8.1	7.2	7.5	---	---	---	7.8	7.5	7.6
11	---	---	---	7.8	7.6	7.7	---	---	---	---	---	---
12	---	---	---	7.9	7.7	7.8	---	---	---	8.4	8.0	8.2
13	---	---	---	7.8	7.5	7.7	---	---	---	8.9	8.3	8.6
14	---	---	---	7.7	7.5	7.6	---	---	---	8.8	8.1	8.4
15	---	---	---	7.9	7.6	7.7	8.3	8.0	8.1	9.1	8.4	8.7
16	---	---	---	7.8	7.6	7.7	8.5	7.9	8.1	9.1	8.4	8.7
17	---	---	---	7.6	7.3	7.5	8.4	8.2	8.3	9.2	8.5	8.7
18	---	---	---	7.4	7.2	7.3	8.5	8.0	8.2	8.7	8.4	8.5
19	---	---	---	7.2	6.9	7.1	8.5	8.1	8.3	8.8	8.1	8.5
20	---	---	---	7.1	7.0	7.1	8.5	7.9	8.2	8.5	8.3	8.4
21	---	---	---	7.1	6.9	7.0	8.2	7.8	8.0	---	---	---
22	---	---	---	7.2	6.9	7.0	8.2	7.4	7.9	---	---	---
23	---	---	---	7.4	7.0	7.2	8.2	7.2	7.7	---	---	---
24	---	---	---	7.5	7.3	7.4	8.0	7.2	7.6	---	---	---
25	---	---	---	7.4	7.3	7.4	8.1	7.4	7.7	---	---	---
26	---	---	---	7.5	7.3	7.4	7.8	7.1	7.4	---	---	---
27	---	---	---	7.5	7.5	7.5	8.0	7.0	7.5	---	---	---
28	---	---	---	---	---	---	8.1	7.2	7.6	---	---	---
29	---	---	---	---	---	---	7.9	7.1	7.4	---	---	---
30	---	---	---	---	---	---	7.9	7.1	7.5	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.0	7.4	7.8	8.2	7.6	7.8	---	---	---
2	---	---	---	8.4	7.9	8.1	8.2	7.9	8.0	---	---	---
3	---	---	---	8.7	8.1	8.3	7.9	7.5	7.8	8.1	8.0	8.0
4	---	---	---	8.7	8.1	8.4	7.8	7.2	7.6	7.4	7.1	7.2
5	---	---	---	8.4	8.0	8.2	7.7	7.2	7.5	7.6	7.1	7.3
6	---	---	---	8.1	7.9	8.0	7.7	7.1	7.4	7.7	7.1	7.4
7	---	---	---	8.5	8.0	8.1	7.7	7.0	7.3	7.5	7.2	7.3
8	---	---	---	8.4	8.0	8.2	7.3	6.9	7.1	7.8	7.2	7.5
9	---	---	---	8.2	7.9	8.0	7.4	7.1	7.2	8.0	7.5	7.7
10	---	---	---	8.2	7.9	8.0	7.6	7.1	7.3	8.0	7.2	7.7
11	---	---	---	8.3	7.9	8.0	7.8	7.3	7.5	8.1	7.7	7.9
12	---	---	---	8.2	7.8	7.9	7.5	7.2	7.4	8.0	7.7	7.9
13	---	---	---	8.4	7.8	8.1	---	---	---	8.2	7.6	7.8
14	---	---	---	8.2	7.6	7.8	---	---	---	8.3	7.6	8.0
15	---	---	---	8.3	7.7	8.0	---	---	---	8.3	7.4	7.8
16	---	---	---	8.4	7.8	8.1	---	---	---	8.1	7.6	7.8
17	---	---	---	8.3	7.7	8.0	---	---	---	8.3	7.6	7.8
18	---	---	---	8.0	7.6	7.8	---	---	---	7.9	7.4	7.7
19	---	---	---	8.1	7.7	7.8	---	---	---	7.8	7.4	7.6
20	---	---	---	8.1	7.7	7.8	---	---	---	7.9	7.3	7.6
21	---	---	---	8.2	7.6	7.9	---	---	---	8.0	7.3	7.6
22	---	---	---	8.2	7.8	7.9	---	---	---	7.8	7.2	7.5
23	---	---	---	8.1	7.6	7.8	---	---	---	7.5	7.2	7.4
24	---	---	---	7.8	7.3	7.6	---	---	---	7.4	7.0	7.2
25	---	---	---	7.8	7.3	7.6	---	---	---	7.4	7.0	7.3
26	---	---	---	7.9	7.4	7.7	---	---	---	7.4	7.1	7.2
27	---	---	---	8.1	7.4	7.8	---	---	---	7.4	7.1	7.2
28	---	---	---	8.1	7.6	7.8	---	---	---	7.4	7.2	7.3
29	---	---	---	8.0	7.7	7.8	---	---	---	7.5	7.0	7.3
30	---	---	---	8.0	7.5	7.7	---	---	---	7.4	7.1	7.3
31	---	---	---	7.9	7.4	7.7	---	---	---	---	---	---
MONTH	---	---	---	8.7	7.3	7.9	---	---	---	8.3	7.0	7.5

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.--Continued

DISSOLVED OXYGEN (MG/L), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JANUARY			FEBRUARY			MARCH		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.6	12.2	12.4	11.6	10.5	10.8
2	---	---	---	12.5	12.3	12.4	11.1	10.8	10.8
3	---	---	---	12.3	12.0	12.1	11.0	10.6	10.8
4	---	---	---	12.3	11.8	12.1	11.8	11.1	11.3
5	---	---	---	12.1	11.7	11.9	---	---	---
6	---	---	---	12.5	12.1	12.2	---	---	---
7	---	---	---	12.5	12.1	12.3	---	---	---
8	---	---	---	12.5	12.2	12.4	---	---	---
9	---	---	---	13.1	12.3	12.6	---	---	---
10	---	---	---	13.3	12.9	13.2	---	---	---
11	---	---	---	13.6	13.2	13.4	9.8	9.7	9.8
12	---	---	---	13.5	13.1	13.3	9.8	9.7	9.8
13	---	---	---	13.1	12.6	12.8	9.8	9.7	9.7
14	15.6	13.3	14.5	12.9	12.6	12.7	9.8	9.7	9.8
15	15.5	14.8	15.0	12.8	12.4	12.6	9.8	9.7	9.8
16	15.2	14.4	14.7	12.7	12.1	12.3	9.8	9.7	9.8
17	14.8	14.0	14.3	12.2	11.5	11.9	9.8	9.7	9.8
18	14.4	13.6	14.0	12.1	11.5	11.8	9.8	9.7	9.8
19	14.1	13.3	13.8	11.7	11.0	11.4	9.8	9.7	9.8
20	13.7	13.1	13.4	11.8	10.9	11.4	9.8	9.7	9.8
21	12.8	12.5	12.6	11.7	10.7	11.1	9.8	9.7	9.8
22	12.8	12.6	12.7	10.9	10.3	10.5	9.8	9.7	9.8
23	13.1	12.7	12.9	11.6	10.3	10.8	9.8	9.7	9.8
24	13.1	12.8	13.0	11.6	10.6	11.0	9.8	9.7	9.8
25	13.4	13.0	13.1	11.6	10.7	11.1	9.8	9.7	9.8
26	13.3	13.1	13.2	11.4	10.5	10.9	9.8	9.7	9.8
27	13.5	13.4	13.4	11.7	10.5	11.3	9.8	9.7	9.8
28	13.5	13.1	13.4	11.8	10.7	11.1	---	---	---
29	13.5	12.8	13.2	---	---	---	---	---	---
30	13.0	12.6	12.8	---	---	---	---	---	---
31	12.8	12.4	12.6	---	---	---	---	---	---
MONTH	---	---	---	13.6	10.3	12.0	---	---	---

	APRIL			MAY			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.8	7.1	7.5	---	---	---
2	---	---	---	8.0	7.6	7.8	---	---	---
3	---	---	---	8.0	7.7	7.8	7.6	6.9	7.3
4	---	---	---	8.0	7.3	7.8	7.1	6.2	6.7
5	---	---	---	8.1	7.5	7.8	7.1	6.2	6.7
6	---	---	---	7.9	7.4	7.6	7.0	6.2	6.5
7	---	---	---	7.7	7.2	7.4	7.1	6.2	6.5
8	---	---	---	8.5	7.1	7.6	7.1	6.3	6.7
9	---	---	---	8.2	7.2	7.7	7.2	6.0	6.5
10	---	---	---	7.6	7.2	7.4	7.0	6.1	6.5
11	---	---	---	---	---	---	6.9	6.0	6.5
12	---	---	---	8.8	7.6	8.1	7.3	5.7	6.4
13	---	---	---	8.8	7.7	8.3	7.1	5.8	6.5
14	---	---	---	9.1	7.8	8.4	7.8	5.7	6.5
15	10.4	10.0	10.2	9.4	7.4	8.6	7.0	5.5	6.6
16	10.6	10.0	10.2	9.4	8.2	9.1	7.1	6.1	6.6
17	10.2	9.3	9.9	9.8	9.1	9.5	7.1	6.1	6.7
18	9.8	9.1	9.4	9.5	8.5	9.1	7.7	6.5	7.2
19	9.6	8.7	9.2	9.6	8.4	9.0	8.2	6.8	7.7
20	9.5	8.3	8.9	9.8	8.5	9.3	8.7	7.4	8.3
21	9.2	8.2	8.6	---	---	---	9.0	8.1	8.5
22	8.8	7.8	8.3	---	---	---	9.7	8.5	9.0
23	8.8	7.4	8.1	---	---	---	9.7	8.6	9.2
24	9.1	8.4	8.7	---	---	---	9.2	8.1	8.6
25	8.6	8.2	8.4	---	---	---	10.7	8.8	9.7
26	8.5	7.8	8.1	---	---	---	11.4	9.3	10.1
27	8.1	7.7	7.9	---	---	---	10.1	8.5	9.2
28	8.3	7.4	7.8	---	---	---	9.5	7.9	8.9
29	8.2	7.0	7.7	---	---	---	10.2	8.0	8.8
30	7.8	7.4	7.7	---	---	---	9.5	6.9	8.1
31	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	11.4	5.5	7.6

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.0	20.5	21.0	---	---	---	---	---	---	---	---	---
2	23.5	21.0	22.0	---	---	---	---	---	---	---	---	---
3	24.5	22.0	22.5	---	---	---	---	---	---	---	---	---
4	23.0	22.0	22.5	---	---	---	---	---	---	---	---	---
5	22.5	21.5	22.0	---	---	---	---	---	---	---	---	---
6	22.5	21.5	21.5	---	---	---	---	---	---	---	---	---
7	21.5	21.0	21.5	---	---	---	---	---	---	---	---	---
8	21.5	19.5	20.5	---	---	---	---	---	---	---	---	---
9	19.5	16.5	18.0	---	---	---	---	---	---	---	---	---
10	16.5	15.0	16.0	---	---	---	---	---	---	---	---	---
11	15.5	14.5	15.0	---	---	---	---	---	---	---	---	---
12	16.0	15.0	15.5	---	---	---	---	---	---	---	---	---
13	17.5	16.0	17.0	---	---	---	---	---	---	---	---	---
14	18.0	17.5	17.5	---	---	---	---	---	---	4.5	4.0	4.5
15	18.0	17.0	17.5	---	---	---	---	---	---	4.5	3.5	4.0
16	16.5	16.0	16.0	---	---	---	---	---	---	5.0	3.5	4.0
17	16.0	14.5	15.5	---	---	---	---	---	---	5.0	3.5	4.5
18	16.0	15.0	15.5	---	---	---	---	---	---	5.0	4.0	4.5
19	17.0	15.5	16.5	---	---	---	---	---	---	5.0	3.0	4.0
20	17.5	16.5	17.0	---	---	---	---	---	---	4.5	3.0	4.0
21	17.0	16.5	17.0	---	---	---	---	---	---	5.0	3.0	4.0
22	17.0	16.5	16.5	---	---	---	---	---	---	5.0	4.0	4.5
23	16.5	16.0	16.5	---	---	---	---	---	---	5.0	4.5	5.0
24	17.0	16.0	16.5	---	---	---	---	---	---	5.0	4.5	5.0
25	17.5	16.0	16.5	---	---	---	---	---	---	6.0	4.5	5.0
26	18.0	16.5	17.5	---	---	---	---	---	---	6.0	4.5	5.5
27	18.0	17.5	17.5	---	---	---	---	---	---	6.0	5.0	5.5
28	17.5	16.0	16.5	---	---	---	---	---	---	5.5	4.5	5.0
29	16.0	15.0	15.5	---	---	---	---	---	---	5.5	4.5	5.5
30	16.0	14.5	15.5	---	---	---	---	---	---	7.0	5.5	6.0
31	---	---	---	---	---	---	---	---	---	6.5	5.5	6.0
MONTH	24.5	14.5	18.0	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	5.0	5.5	---	---	---	---	---	---	---	---	---
2	5.5	4.0	5.0	---	---	---	---	---	---	---	---	---
3	4.5	3.5	4.0	7.5	7.0	7.5	---	---	---	---	---	---
4	5.5	3.5	5.0	8.0	7.0	7.5	---	---	---	---	---	---
5	5.5	4.5	5.0	7.5	6.0	7.0	---	---	---	---	---	---
6	5.5	3.5	4.5	8.0	7.0	7.5	---	---	---	---	---	---
7	5.0	3.0	3.5	8.0	7.0	7.5	---	---	---	---	---	---
8	4.5	2.0	3.0	8.5	7.0	7.5	---	---	---	20.5	18.5	19.5
9	3.5	1.0	2.5	8.5	7.5	8.0	---	---	---	20.0	19.0	19.5
10	3.5	2.0	2.5	8.5	7.0	8.0	---	---	---	20.0	19.0	19.5
11	3.5	1.5	2.5	11.5	10.5	11.5	---	---	---	---	---	---
12	4.0	1.5	2.5	10.5	8.5	9.5	---	---	---	---	---	---
13	3.5	2.0	2.5	8.5	7.0	7.5	---	---	---	---	---	---
14	4.0	2.0	3.0	7.5	7.0	7.0	---	---	---	---	---	---
15	4.5	2.0	3.5	8.0	7.0	7.5	15.5	15.0	15.0	---	---	---
16	5.5	3.0	4.5	7.5	6.5	7.0	16.0	14.5	15.5	---	---	---
17	6.5	5.0	6.0	6.5	5.5	6.0	16.0	15.0	15.5	---	---	---
18	6.5	5.5	6.0	5.5	4.5	5.0	16.0	15.0	16.0	---	---	---
19	7.5	6.5	7.0	6.0	5.5	5.5	16.5	15.5	16.0	---	---	---
20	7.5	6.5	7.0	6.5	6.0	6.0	17.0	16.0	16.5	---	---	---
21	8.0	6.5	7.5	6.5	6.0	6.0	17.0	16.5	17.0	---	---	---
22	9.0	5.5	7.0	7.0	6.0	6.5	17.5	16.5	17.0	---	---	---
23	7.0	5.5	6.5	8.0	6.5	7.0	18.0	16.0	17.0	---	---	---
24	8.0	6.5	7.0	9.5	7.5	8.5	17.0	16.0	16.5	---	---	---
25	9.0	6.0	8.0	---	9.5	9.5	17.5	17.0	17.0	---	---	---
26	9.0	6.0	8.0	---	9.0	10.0	17.5	16.0	17.0	---	---	---
27	---	---	---	10.5	9.5	10.0	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	9.0	1.0	5.0	---	4.5	7.5	---	---	---	---	---	---

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	21100	110	6260	74200	530	106000	8310	70	1570
2	22700	120	7340	73000	500	98400	10400	70	1960
3	16100	80	3470	75300	470	95400	6420	50	865
4	11500	70	2170	65600	380	67200	4380	50	590
5	7630	90	1850	50600	240	32700	2890	40	313
6	6710	130	2350	45200	170	20700	1120	40	121
7	5030	180	2440	42000	120	13600	16	30	1
8	21600	290	16900	40800	90	9900	1930	30	156
9	47700	560	72000	40400	60	6540	4340	30	350
10	47700	610	78400	24200	10	652	4880	20	264
11	47200	650	82700	21600	10	582	3830	20	208
12	48800	710	93400	21100	10	569	4890	10	132
13	43700	590	69500	21100	20	1140	3940	10	105
14	42300	490	55900	27200	70	5130	4120	10	111
15	24900	250	16800	30100	100	8120	5280	20	286
16	15000	100	4040	20300	20	1100	3210	20	173
17	32400	210	18300	12100	10	326	3500	30	283
18	38600	250	25000	16200	10	437	5780	30	466
19	39100	280	26400	22200	20	1200	14500	50	1960
20	39400	310	26600	20200	10	545	2810	20	151
21	19100	230	11800	14700	10	396	4680	20	253
22	14600	150	5900	11900	10	321	7650	30	620
23	35100	320	30300	8750	10	237	11700	40	1260
24	81700	710	156000	7360	10	200	13100	40	1410
25	72100	670	130000	4140	20	224	6700	20	361
26	88500	750	179000	31800	40	3430	5930	20	321
27	129000	950	333000	47200	50	6360	6300	20	340
28	85600	690	159000	7500	70	1420	6520	20	350
29	80900	640	140000	13500	90	3280	7110	30	574
30	87600	660	156000	4210	70	795	6890	20	372
31	77400	580	121000	--	--	--	7540	30	609
TOTAL	1360770	--	2030000	823360	--	487000	180666	--	16500

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7000	20	377	13700	50	1850	29600	60	4790
2	7830	20	423	12400	50	1670	28000	40	3020
3	18000	40	1940	19700	80	4250	30300	60	4900
4	44400	270	32300	16900	60	2730	35400	110	10500
5	39600	230	24600	17900	70	3380	35400	100	9560
6	42000	240	27200	16400	70	3100	24800	10	669
7	53000	330	47200	6000	40	647	26200	20	1410
8	50800	310	42500	9320	40	1010	31700	70	5980
9	35600	170	16300	26400	130	9250	33700	70	6360
10	37000	180	18000	16900	50	2280	38500	120	12500
11	25500	70	4810	15900	50	2140	37300	100	10100
12	24600	60	3980	17300	50	2330	27100	20	1460
13	28700	100	7740	15100	60	2440	22400	10	604
14	52500	300	42500	8090	50	1090	28900	60	4680
15	34300	140	12900	7070	50	954	30300	80	6540
16	24000	40	2590	9020	60	1460	5640	10	151
17	22300	20	1200	21000	100	5660	9490	10	256
18	23200	40	2500	18600	100	5020	20500	30	1660
19	28500	80	6150	30500	180	14800	25800	80	5560
20	35900	160	15500	21900	90	5310	12200	20	658
21	18600	30	1500	16800	50	2260	11200	30	906
22	14100	20	760	24500	90	5940	14000	40	1510
23	13900	20	749	45600	270	33200	17100	30	1380
24	16500	40	1780	37700	180	18300	13300	10	359
25	6880	10	186	35400	150	14300	14400	10	388
26	12000	30	971	37200	150	15000	23900	30	1930
27	14200	40	1530	47400	240	30700	21400	30	1730
28	9100	30	736	35000	110	10400	16100	20	868
29	12200	40	1320	--	--	--	9570	20	515
30	13000	50	1750	--	--	--	9680	20	523
31	11700	50	1580	--	--	--	7500	20	404
TOTAL	776910	--	323000	599700	--	201000	691380	--	102000

07250550 ARKANSAS RIVER AT DAM NO. 13, NEAR VAN BUREN, ARK.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5300	10	143	10400	50	1400	7040	30	569
2	3860	10	105	13300	60	2150	16900	50	2280
3	3140	10	84	10800	50	1460	23100	90	5600
4	3740	10	100	12300	60	1990	36600	210	20700
5	3590	20	194	9780	40	1050	33400	180	16200
6	3560	20	191	8350	40	900	16900	50	2280
7	3710	20	200	15000	50	2020	14600	40	1570
8	2800	20	151	8650	40	933	19900	70	3760
9	5600	20	302	6220	30	504	21800	80	4700
10	6280	20	340	7090	40	766	16500	50	2220
11	6800	20	367	13200	50	1780	22900	90	5560
12	5590	20	302	12100	50	1630	30500	150	12300
13	5080	30	410	10600	40	1140	31900	160	13800
14	7490	40	809	10700	40	1150	35000	180	17000
15	7650	40	825	9790	40	1060	34600	180	16800
16	9060	40	976	6220	30	504	34500	180	16700
17	8470	40	914	7380	40	795	35300	190	18100
18	3130	30	253	6020	30	488	35400	190	18100
19	3170	30	256	10000	40	1080	26400	110	7830
20	12200	50	1640	11200	40	1210	24800	90	6020
21	18700	70	3530	9120	30	739	25100	100	6770
22	10700	40	1150	5780	20	313	22000	70	4150
23	19400	80	4180	8930	30	723	13700	30	1110
24	21400	100	5770	19200	60	3110	17100	40	1840
25	8080	50	1090	26300	120	8510	30400	140	11500
26	8090	50	1090	18900	60	3060	26900	110	7980
27	8090	50	1090	19500	60	3150	23400	80	5050
28	7850	50	1060	27700	130	9710	19200	50	2590
29	8350	50	1130	19100	60	3090	28800	130	10100
30	9330	50	1260	16600	50	2240	26000	100	7010
31	--	--	--	6710	20	361	--	--	--
TOTAL	230150	--	29900	376940	--	59000	750640	--	230000

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	23900	90	5800	15700	30	1270	8130	10	218
2	24600	90	5970	11000	20	593	10500	10	283
3	12300	30	995	8350	10	226	12800	20	690
4	14200	30	1150	8140	10	218	11000	10	297
5	19700	60	3190	7920	10	213	6820	10	183
6	12000	30	971	16900	20	911	2750	10	75
7	10500	40	1130	10800	10	291	52700	330	46900
8	21200	70	4000	9610	10	259	56700	360	55000
9	28900	130	10100	10200	10	275	34700	170	15900
10	23600	90	5730	10500	10	283	33300	160	14400
11	22100	60	3580	17500	20	944	17000	30	1380
12	13000	20	701	17900	20	965	16500	30	1340
13	12900	20	696	9910	10	267	16600	30	1340
14	25700	90	6240	14400	10	388	12000	20	647
15	19800	50	2670	8690	10	235	13000	30	1050
16	18200	40	1960	8580	10	232	9800	20	528
17	20500	50	2760	7670	10	208	3920	10	105
18	21200	60	3430	8270	10	224	5150	10	140
19	20400	50	2750	10400	10	280	19500	50	2630
20	18600	40	2010	12000	10	324	14900	30	1200
21	15700	30	1270	17600	20	949	16700	40	1800
22	13800	20	744	13700	10	369	17400	40	1880
23	18200	30	1470	15200	20	820	17800	40	1920
24	33100	160	14300	13400	10	361	20300	60	3280
25	20500	50	2760	21400	50	2880	20400	60	3300
26	11900	20	642	20800	40	2240	20300	60	3280
27	15900	30	1290	15500	20	836	20100	60	3250
28	14000	20	755	10600	10	286	14100	30	1140
29	13700	20	739	11500	20	620	15800	40	1700
30	18600	40	2010	8020	10	216	16900	40	1822
31	20800	50	2800	8080	10	218	--	--	--
TOTAL	579500	--	84600	380200	--	18400	937570	--	168000

07257000 BIG PINEY CREEK NEAR DOVER, ARK.

LOCATION.--Lat 35°32'58", long 93°09'30", in SW¼NE¼ sec.6, T.10 N., R.20 W., Pope County, at gaging station on left bank 7.2 miles downstream from Indian Creek, 10.4 miles north of Dover, and at mile 28.0.
DRAINAGE AREA.--274 sq mi.
PERIOD OF RECORD.--Chemical analyses: October 1953 to October 1961, October 1970 to September 1971.
Water temperature: October 1955 to September 1956.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
NOV.										
09...	1760	4.7	--	--	--	--	--	--	--	--
DEC.										
07...	102	--	--	--	--	--	--	--	--	--
JAN.										
04...	1330	--	110	20	0	9	0	9	11	10
FEB.										
01...	171	--	--	--	--	--	--	--	--	--
MAR.										
01...	477	--	--	--	--	--	--	--	--	--
APR.										
05...	116	--	--	--	--	--	--	--	--	--
MAY										
04...	271	4.8	10	20	2	0	6	5	7	0
JUNE										
07...	141	--	--	--	--	--	--	--	--	--
JULY										
06...	13	--	120	10	1	--	0	7	3	0
AUG.										
09...	40	--	--	--	--	--	--	--	--	--
SEP.										
14...	.42	--	--	--	--	--	--	--	--	--

DATE	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL AMMONIA ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
NOV.									
09...	0	3.6	.8	.0	.1	.42	.10	19	1
DEC.									
07...	0	--	--	--	--	.10	.010	--	--
JAN.									
04...	--	--	--	--	--	.07	.040	--	--
FEB.									
01...	--	--	--	--	--	.10	.050	--	--
MAR.									
01...	--	--	--	--	--	.00	.010	--	--
APR.									
05...	--	--	--	--	--	.03	.000	--	--
MAY									
04...	0	5.2	1.2	.2	.2	.03	.000	23	4
JUNE									
07...	--	--	--	--	--	.12	.000	--	--
JULY									
06...	--	--	--	--	--	.08	.10	--	--
AUG.									
09...	--	--	--	--	--	.09	.000	--	--
SEP.									
14...	--	--	--	--	--	.29	.040	--	--

FIELD ANALYSES

DATE	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
NOV.					
09...	12.0	47	7.4	--	--
DEC.					
07...	8.0	--	7.6	10.8	92
JAN.					
04...	7.5	--	7.5	11.0	92
FEB.					
01...	7.0	40	7.2	11.0	91
MAR.					
01...	10.0	--	7.6	5.5	49
APR.					
05...	14.0	63	7.6	9.6	92
MAY					
04...	16.5	--	7.2	7.6	78
JUNE					
07...	24.0	--	--	7.5	88
JULY					
06...	32.0	--	7.0	4.8	68
AUG.					
09...	27.0	52	7.4	7.6	94
SEP.					
14...	26.0	--	--	7.9	96

07257000 BIG PINEY CREEK NEAR DOVER, ARK.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
NOV. 09...	4.6	--	--	--	5.7	1.2	.9	.9	20
DEC. 07...	2.5	--	--	--	--	--	--	--	26
JAN. 06...	1.5	10	--	10	--	--	--	--	--
FEB. 01...	--	--	--	--	--	--	--	--	--
MAR. 01...	--	--	--	--	--	--	--	--	--
APR. 05...	--	--	--	--	--	--	--	--	--
MAY 06...	--	7	1	0	7.2	1.2	1.9	.8	24
JUNE 07...	--	--	--	--	--	--	--	--	--
JULY 06...	--	0	0	10	--	--	--	--	--
AUG. 09...	--	--	--	--	--	--	--	--	--
SEP. 14...	--	--	--	--	--	--	--	--	--

DATE	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
NOV. 09...	18	9	.1	44	6.8	2	30	15	2.0
DEC. 07...	21	--	--	75	7.5	15	1	8	2.0
JAN. 06...	--	--	--	51	6.4	7	18	8	5.0
FEB. 01...	--	--	--	44	7.1	13	8	1	1.0
MAR. 01...	--	--	--	42	7.2	5	1	8	1.0
APR. 05...	--	--	--	52	7.3	2	8	6	--
MAY 06...	20	15	.2	40	7.5	10	7	2	--
JUNE 07...	--	--	--	62	7.2	10	16	5	--
JULY 06...	--	--	--	68	8.1	5	4	2	--
AUG. 09...	--	--	--	62	7.3	6	50	4	--
SEP. 14...	--	--	--	92	7.4	10	20	4	--

ANALYSIS OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JULY 01...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JULY 01...	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JULY 01...	<.20	<.20	.40	.40	<.20	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)
JULY 01...	<.20	<1.0	<.20	<.20	<.20	<.60	<.20	<.20

07257500 ILLINOIS BAYOU NEAR SCOTTSVILLE, ARK.

LOCATION.--Lat 35°27'58", long 93°02'28", in SE¼SW¼ sec.32, T.10 N., R.19 W., Pope County, at bridge on county road 1.3 miles north of Scottsville.

DRAINAGE AREA.--241 sq mi (revised).

PERIOD OF RECORD.--Chemical analyses: October 1953 to September 1960, October 1970 to September 1971. Water temperature: October 1955 to September 1956.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESF (MN) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED CORALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)
NOV.												
09...	--	5.1	--	--	--	--	--	--	--	--	10	--
DEC.												
07...	50	--	--	--	--	--	--	--	--	--	2.5	--
JAN.												
04...	1670	--	140	30	0	7	0	5	8	7	<.5	80
FEB.												
01...	156	--	--	--	--	--	--	--	--	--	--	--
MAR.												
01...	386	--	--	--	--	--	--	--	--	--	--	--
APR.												
05...	113	--	--	--	--	--	--	--	--	--	--	--
MAY												
04...	173	5.4	10	15	2	1	5	7	6	0	--	10
JUNE												
07...	189	--	--	--	--	--	--	--	--	--	--	--
JULY												
06...	--	--	0	0	0	--	0	3	1	0	--	0
AUG.												
09...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
14...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL AMMONIA ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARRONATE HARDNESS (MG/L)	ALKALINITY AS CACO3 (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-CORALT UNITS)	TURBIDITY (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
NOV.												
09...	.12	.35	10	0	10	19	.2	26	6.7	3	35	20
DEC.												
07...	.11	.000	--	--	--	--	--	19	7.1	15	8	0
JAN.												
04...	.00	.040	--	--	--	--	--	25	6.4	5	16	10
FEB.												
01...	.00	.060	--	--	--	--	--	27	6.9	27	7	3
MAR.												
01...	.00	.020	--	--	--	--	--	26	7.0	5	0	1
APR.												
05...	.04	.000	--	--	--	--	--	30	7.1	5	8	4
MAY												
04...	.02	.020	18	3	15	18	.2	44	7.4	10	7	2
JUNE												
07...	.06	.000	--	--	--	--	--	32	7.1	20	17	2
JULY												
06...	.16	.020	--	--	--	--	--	40	7.1	5	3	5
AUG.												
09...	.13	.000	--	--	--	--	--	37	7.2	4	50	4
SEP.												
14...	.19	.020	--	--	--	--	--	47	7.2	10	15	3

FIELD ANALYSES

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
NOV.					
09...	12.5	--	6.8	--	--
DEC.					
07...	10.0	--	6.7	10.5	93
JAN.					
04...	6.0	--	7.3	11.4	92
FEB.					
01...	9.0	--	6.9	10.2	88
MAR.					
01...	10.0	--	7.3	5.7	50
APR.					
05...	15.0	--	7.0	10.0	99
MAY					
04...	18.0	--	--	9.0	94
JUNE					
07...	26.0	--	--	8.0	98
JULY					
06...	34.0	36	7.2	5.0	69
AUG.					
09...	28.5	35	7.1	8.1	102
SEP.					
14...	29.0	52	7.1	9.0	117

< Less than.

07257500 ILLINOIS BAYOU NEAR SCOTTSVILLE, ARK.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)
NOV.												
09...	--	--	2.2	1.0	1.1	.7	12	0	3.2	1.0	.0	.1
DEC.												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
04...	--	10	--	--	--	--	--	--	--	--	--	--
FEB.												
01...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
01...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
05...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
04...	1	10	5.5	1.1	2.0	.8	18	0	5.2	2.8	.2	.1
JUNE												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JULY												
06...	0	0	--	--	--	--	--	--	--	--	--	--
AUG.												
09...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
14...	--	--	--	--	--	--	--	--	--	--	--	--

ANALYSIS OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JULY									
01...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JULY								
01...	.00	.00	.00	.00	.00	.00	.00	.04

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JULY								
01...	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)
JULY								
01...	<.20	<1.0	<.20	<.20	<.20	<.60	<.20	<.20

< Less than.

07258000 ARKANSAS RIVER AT DARDANELLE, ARK.

LOCATION.--Lat 35°13'34", long 93°08'58", in SW¼ sec.29, T.7 N., R.20 W., Yell County, at gaging station near left bank on downstream side of bridge on State Highway 7 at Dardanelle, 1 mile upstream from Whig Creek, 2.0 miles downstream from Dardanelle Dam, 4.7 miles downstream from Illinois Bayou, and at mile 255.8.

DRAINAGE AREA.--153,707 sq mi, of which 22,241 sq mi is probably noncontributing.

PERIOD OF RECORD.--Chemical analyses: October 1948 to September 1961, August 1962 to August 1963.
Water temperature: October 1948 to September 1961.
Sediment records: October 1967 to September 1971.

EXTREMES.--1970-71:
Sediment concentrations: Maximum daily, 880 mg/l Oct. 28; minimum daily, 20 mg/l on many days during the year.
Sediment discharge: Maximum daily, 344,000 tons Oct. 28; minimum daily, 3 tons Dec. 6.

Period of record:
Sediment concentrations (1968-71): Maximum daily, 1,640 mg/l Apr. 26, 1970; minimum daily, 10 mg/l on many days in 1968, 1969, and 1970.
Sediment discharge (1968-71): Maximum daily, 1,120,000 tons Apr. 26, 1970; minimum daily, 3 tons Dec. 6, 1970.

REMARKS.--Records furnished by Corps of Engineers, Little Rock, Ark. Unpublished sediment records prior to October 1968 are available from Corps of Engineers, Little Rock, Ark.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	31500	50	4250	79700	150	32200	11900	20	642
2	32300	50	4350	79800	150	32300	13900	20	749
3	23200	40	2500	74500	140	28100	15000	20	809
4	13500	20	728	77500	140	29300	11900	20	642
5	9060	20	488	70400	130	24700	2670	20	143
6	6490	20	350	47600	80	10300	43	20	3
7	7020	20	377	43800	70	8270	4100	20	221
8	22200	40	2390	34900	60	5640	1730	20	94
9	40500	70	7640	54100	90	13100	851	20	46
10	46100	80	9940	43800	70	8270	2500	20	135
11	45100	80	9730	41300	70	7790	8200	20	442
12	56800	100	15300	31700	50	4270	3360	20	181
13	56800	100	15300	22200	30	1800	761	20	40
14	45200	80	9750	31000	50	4180	5580	20	302
15	42200	70	7960	40000	70	7550	6100	20	329
16	33500	60	5420	35300	60	5710	8420	20	453
17	29600	50	3990	18600	30	1500	7750	20	418
18	31800	50	4290	15000	20	809	6300	20	340
19	35300	60	5710	17000	30	1380	5730	20	310
20	36900	60	5970	27000	40	216	4310	20	232
21	40900	70	7720	27500	50	3710	10300	20	555
22	32000	50	4320	14300	20	771	12800	20	690
23	24700	40	2660	16300	30	1320	19400	30	1570
24	58900	100	15900	7740	20	418	22100	40	2380
25	88600	180	43000	7740	20	418	15900	30	1290
26	81000	150	32800	385	20	22	15900	30	1290
27	125000	640	216000	2950	20	159	7570	20	407
28	145000	880	344000	4150	20	224	9310	20	501
29	97300	240	63000	8770	20	472	10300	20	555
30	91400	200	49300	10800	20	582	10700	20	577
31	90300	190	46300	--	--	--	10600	20	572
TOTAL	1520170	--	941000	985835	--	235000	265985	--	16900

07258000 ARKANSAS RIVER AT DARDANELLE, ARK.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4590	20	248	16600	30	1340	42100	70	8020
2	8160	20	439	15800	30	1280	37300	60	6030
3	17100	30	1380	13800	20	744	37600	60	6080
4	43200	70	8150	30000	50	4040	31100	50	4190
5	50800	90	12300	25900	40	2790	34000	60	5500
6	53800	90	13100	18800	30	1520	26300	40	2840
7	51500	90	12500	10400	20	561	23800	40	2570
8	60000	110	17800	13100	20	706	35900	60	5810
9	45900	80	9900	24000	40	2590	41000	70	7740
10	40300	70	7600	26600	40	2870	42500	70	8020
11	35400	60	5730	18300	30	1480	38700	60	6260
12	33000	50	4450	25700	40	2770	38700	60	6260
13	29800	50	4020	29700	50	4000	27800	50	3750
14	50200	90	12200	14300	20	771	13300	20	717
15	56100	100	15100	12400	20	669	32900	50	4440
16	40700	70	7680	8600	20	464	29000	50	3910
17	31500	50	4250	21500	30	1740	15400	30	1250
18	32100	50	4330	25900	40	2790	12500	20	674
19	30900	50	4160	26100	40	2820	18200	30	1470
20	31700	50	4270	25700	40	2770	25100	40	2710
21	37600	60	6060	23000	40	2480	7290	20	394
22	29800	50	4020	37400	60	6050	12200	20	658
23	13800	20	744	43600	70	8230	22700	40	2450
24	7270	20	391	42400	70	8000	19500	30	1580
25	15500	30	1250	36400	60	5890	9460	20	510
26	14600	20	787	36700	60	5940	19400	30	1570
27	17400	30	1410	47400	80	10200	18300	30	1480
28	14900	20	803	54700	100	14700	11000	20	593
29	10700	20	577	--	--	--	17300	30	1400
30	12900	20	696	--	--	--	15500	30	1250
31	15400	30	1250	--	--	--	10600	20	572
TOTAL	936620	--	168000	724800	--	100000	766450	--	101000

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11200	20	604	14000	20	755	11700	20	631
2	9870	20	531	9490	20	512	17300	30	1400
3	617	20	32	10600	20	572	23300	40	2510
4	410	20	22	15600	30	1260	33200	60	5370
5	5320	20	286	18600	30	1500	35000	60	5660
6	12700	20	685	13400	20	723	21900	30	1770
7	7410	20	399	17200	30	1390	20800	30	1680
8	3280	20	178	7530	20	407	18500	30	1500
9	3080	20	167	5050	20	272	21400	30	1730
10	2410	20	129	12800	20	690	26500	40	2860
11	2680	20	146	31800	50	4290	29400	50	3960
12	6080	20	329	31500	50	4250	29800	50	4020
13	8440	20	456	24100	40	2600	23000	40	2480
14	6790	20	367	20000	30	1620	27300	50	3680
15	8740	20	472	15300	30	1240	28800	50	3880
16	10500	20	566	4340	20	235	34700	60	5610
17	1470	20	78	9370	20	504	41600	70	7850
18	4530	20	245	13500	20	728	38100	60	6160
19	6370	20	342	12000	20	647	27400	50	3690
20	12900	20	696	11500	20	620	21500	[illegible]	1740
21	19300	30	1560	12100	20	652	25900	40	2790
22	21600	30	1750	6080	20	329	24100	40	2600
23	18100	30	1460	1450	20	78	23000	40	2480
24	19200	30	1550	25100	40	2710	20900	30	1690
25	13800	20	744	30800	50	4150	28900	50	3900
26	16100	30	1300	31800	50	4290	23300	40	2510
27	14900	20	803	24200	40	2610	7740	20	418
28	12600	20	679	22500	40	2430	23400	40	2520
29	13700	20	739	24500	40	2640	31600	50	4260
30	15900	30	1290	19800	30	1600	31900	50	4300
31	--	--	--	17500	30	1420	--	--	--
TOTAL	289997	--	18600	513510	--	47700	771940	--	95700

07258000 ARKANSAS RIVER AT DARDANELLE, ARK.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	24800	40	2670	4550	20	245	9360	20	504
2	30900	50	4260	13300	20	717	11100	20	599
3	14900	20	803	13700	20	739	10100	20	545
4	7250	20	391	11400	20	615	8700	20	469
5	7940	20	429	10200	20	550	5390	20	291
6	18200	30	1470	19700	30	1590	21000	30	1700
7	19400	30	1570	23800	40	2570	34700	60	5610
8	20100	30	1630	5690	20	307	45700	80	9860
9	23900	40	2580	12600	20	679	48100	80	10400
10	21200	30	1720	12800	20	690	33600	60	5440
11	13600	20	733	16300	30	1320	29100	50	3920
12	23300	40	2510	21000	30	1700	9130	20	493
13	16200	30	1310	20700	30	1670	18400	30	1490
14	17800	30	1440	7210	20	388	18200	30	1470
15	21800	30	1760	4180	20	226	11000	20	593
16	24900	40	2680	11700	20	631	14200	20	766
17	12000	20	647	8850	20	477	13800	20	744
18	4160	20	224	11500	20	620	7040	20	380
19	24100	40	2600	12300	20	663	15000	20	809
20	21600	30	1750	15300	30	1240	17200	30	1390
21	22900	40	2470	13100	20	706	18100	30	1460
22	19900	30	1610	2070	20	111	15100	30	1220
23	19200	30	1550	14700	20	793	17700	30	1430
24	33200	60	5370	18600	30	1500	15500	30	1250
25	28900	50	3900	19700	30	1590	10800	20	582
26	10900	20	588	21100	30	1710	19400	30	1570
27	13100	20	706	16600	30	1340	20800	30	1680
28	15500	30	1250	6870	20	369	20200	30	1630
29	17900	30	1450	4990	20	270	16900	30	1370
30	16100	30	1300	17600	30	1420	18200	30	1470
31	19600	30	1580	13400	20	723	--	--	--
TOTAL	585250	--	54900	405510	--	28200	553520	--	61100

07261235 EAST FORK CADRON CREEK NORTH OF CONWAY, ARK.

LOCATION.--Lat 35°09'21", long 92°23'58", in SW¼NW¼ sec.16, T.6 N., R.13 W., Faulkner County, at bridge on U.S. Highway 65, 3.8 miles northeast of junction of U.S. Highway 65 and Interstate Highway 40.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	15.	830.	1120.0	4.0	3.90	7.5	8.5	0.05	0.160	63.
OCT. 28......	13.	-	-	-	-	-	3.0	-	-	-
NOV. 10......	11.	-	-	-	-	-	6.0	-	-	-
NOV. 24......	5.	-	-	-	-	-	6.0	-	-	-
DEC. 1......	13.	-	-	-	-	-	6.0	-	-	-
DEC. 22......	11.	-	-	-	-	-	4.0	-	-	-
JAN. 6, 1971	4.	870.	0	2.4	1.50	1.3	4.5	0.30	0.310	26.
JAN. 20......	5.	-	-	-	-	-	3.5	-	-	-
FEB. 2......	-	-	-	-	-	-	2.5	-	-	-
FEB. 16......	7.	-	-	-	-	-	5.0	-	-	-
MAR. 16......	14.	-	-	-	-	-	4.5	-	-	-
MAR. 30......	11.	-	-	-	-	-	7.0	-	-	-
APR. 21......	-	-	-	-	-	-	4.5	-	-	-
MAY 4......	-	-	-	-	-	-	3.5	-	-	-
MAY 18......	19.	-	-	-	-	-	7.0	-	-	-
JUNE 15......	16.	-	-	-	-	-	3.0	-	-	-
JUNE 29......	25.	-	-	-	-	-	4.0	-	-	-
JULY 21......	24.	-	-	-	-	-	1.5	-	-	-
AUG. 3......	22.	-	-	-	-	-	2.0	-	-	-
AUG. 17......	25.	-	-	-	-	-	-	-	-	-
SEP. 14......	22.	-	-	-	-	-	4.0	-	-	-
SEP. 27......	-	-	-	-	-	-	6.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	26.	10.0	22.	50.	6.40	30.	30.	-	3.4
OCT. 28......	-	-	12.	36.	6.40	-	75.	0.9	6.0
NOV. 10......	-	-	19.	34.	6.00	-	55.	1.4	8.4
NOV. 24......	-	-	11.	45.	6.60	-	25.	1.9	9.1
DEC. 1......	-	-	12.	46.	6.50	-	65.	3.2	6.7
DEC. 22......	-	-	7.	34.	6.40	-	50.	2.1	10.2
JAN. 6, 1971	12.	6.0	10.	24.	6.40	60.	45.	0.7	10.5
JAN. 20......	-	-	20.	40.	6.40	-	25.K	1.2	11.0
FEB. 2......	-	-	13.	42.	6.50	-	25.K	0.9	10.8
FEB. 16......	-	-	10.	32.	6.20	-	25.K	1.1	10.6
MAR. 16......	-	-	10.	36.	6.60	-	40.	1.1	8.2
MAR. 30......	-	-	11.	40.	6.50	-	35.	1.1	9.4
APR. 21......	-	-	18.	55.	6.60	-	25.K	2.8	6.3
MAY 4......	-	-	15.	43.	6.70	-	50.	1.7	5.8
MAY 18......	-	-	15.	44.	6.30	-	65.	1.8	5.9
JUNE 15......	-	-	18.	49.	7.00	-	35.	3.1	6.2
JUNE 29......	-	-	27.	66.	7.10	-	30.	3.8	6.0
JULY 21......	-	-	23.	72.	7.00	-	30.	2.7	3.2
AUG. 3......	-	-	10.	48.	6.40	-	130.	2.3L	2.8
AUG. 17......	-	-	14.	52.	6.50	-	95.	-	-
SEP. 14......	-	-	21.	69.	6.80	-	25.	0.9	3.1
SEP. 27......	-	-	35.	90.	6.30	-	25.K	2.5	6.6

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 13, 1970	430.	20.	110.
OCT. 28......	9100.	1500.	2800.
NOV. 24......	200.	97.	290.
DEC. 1......	430.	20.	110.
DEC. 22......	5400.	2600.	5100.
JAN. 6, 1971	15000.	900.	5600.
JAN. 20......	140.	100.	50.
FEB. 2......	53.L	53.	27.
FEB. 16......	620.	85.	530.
MAR. 16......	200.	97.	150.
APR. 21......	460.	37.	34.
MAY 4......	400.	160.	93.
MAY 18......	2300.	110.	410.
JUNE 15......	240.	150.	73.
JUNE 29......	140.	88.	300.
AUG. 3......	4900.	3600.	1300.
AUG. 18......	2000.	200.	140.
SEP. 14......	1500.	50.	36.
SEP. 27......	380.	68.	52.

K Less than.
L Greater than.

07261250 CADRON CREEK WEST OF CONWAY, ARK.

LOCATION.--Lat 36°06'53", long 92°31'20", in SW¼NW¼ sec.32, T.6 N., R.14 W., Faulkner County, 120 ft upstream from bridge on U.S. highway 64 at county line near Conway.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 14, 1970	-	450.	0	3.2	8.30	7.2	3.5	0	0.180	53.
OCT. 28......	15.	-	-	-	-	-	3.0	-	-	-
NOV. 10......	12.	-	-	-	-	-	5.5	-	-	-
NOV. 24......	6.	-	-	-	-	-	8.5	-	-	-
DEC. 1......	12.	-	-	-	-	-	8.0	-	-	-
DEC. 22......	11.	-	-	-	-	-	4.5	-	-	-
JAN. 6, 1971	5.	650.	0	1.6	3.90	7.5	4.0	0.35	0.720	20.
JAN. 20......	5.	-	-	-	-	-	-	-	-	-
FEB. 2......	5.	-	-	-	-	-	7.0	-	-	-
FEB. 16......	7.	-	-	-	-	-	2.5	-	-	-
MAR. 16......	14.	-	-	-	-	-	3.5	-	-	-
MAR. 30......	11.	-	-	-	-	-	6.0	-	-	-
APR. 21......	18.	-	-	-	-	-	3.0	-	-	-
MAY 4......	14.	-	-	-	-	-	4.5	-	-	-
MAY 18......	19.	-	-	-	-	-	5.0	-	-	-
JUNE 14......	17.	-	-	-	-	-	2.0	-	-	-
JUNE 29......	26.	-	-	-	-	-	4.0	-	-	-
JULY 21......	24.	-	-	-	-	-	2.5	-	-	-
AUG. 3......	22.	-	-	-	-	-	2.0	-	-	-
AUG. 17......	26.	-	-	-	-	-	-	-	-	-
SEP. 14......	26.	-	-	-	-	-	3.0	-	-	-
SEP. 27......	-	-	-	-	-	-	7.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 14, 1970	42.	8.0	13.	20.	6.40	30.	30.	0.8	8.0
OCT. 28......	-	-	11.	27.	6.10	-	90.	2.6	7.0
NOV. 10......	-	-	13.	34.	6.00	-	65.	2.9	7.9
NOV. 24......	-	-	17.	70.	6.70	-	25.	1.3	10.0
DEC. 1......	-	-	13.	48.	6.70	-	40.	0.9	9.3
DEC. 22......	-	-	10.	34.	6.50	-	60.	2.2	10.1
JAN. 6, 1971	20.	4.0	8.	26.	6.30	60.	45.	1.3	10.9
JAN. 20......	-	-	11.	33.	6.20	-	25.K	0.9	10.8
FEB. 2......	-	-	12.	35.	6.50	-	25.K	0.8	11.3
FEB. 16......	-	-	11.	27.	6.20	-	25.K	1.6	11.5
MAR. 16......	-	-	10.	28.	6.60	-	40.	1.0	9.2
MAR. 30......	-	-	15.	33.	6.70	-	30.	2.8	10.1
APR. 21......	-	-	14.	44.	6.80	-	25.K	4.0	9.1
MAY 4......	-	-	14.	44.	6.80	-	45.	3.1	6.2
MAY 18......	-	-	16.	40.	6.60	-	50.	2.2	6.0
JUNE 14......	-	-	20.	48.	7.10	-	65.	3.6	7.9
JUNE 29......	-	-	28.	70.	7.30	-	75.	3.4	9.1
JULY 21......	-	-	35.	89.	7.30	-	35.	2.1	9.5
AUG. 3......	-	-	12.	35.	6.60	-	100.	2.2	4.8
AUG. 17......	-	-	12.	55.	6.40	-	45.	3.6	6.0
SEP. 14......	-	-	18.	72.	7.10	-	30.	4.1	6.6
SEP. 27......	-	-	26.	107.	6.20	-	25.K	2.7	6.1

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 14, 1970	1200.	1200.K	670.
OCT. 28......	11000.	2400.	2400.
NOV. 24......	380.	140.	290.
DEC. 1......	200.	20.	30.
DEC. 22......	7800.	2200.	4600.
JAN. 6, 1971	6400.	1500.	4600.
JAN. 20......	100.	28.	33.
FEB. 2......	210.	7.	19.
FEB. 16......	1100.	80.	540.
MAR. 16......	210.	37.	17.
APR. 21......	220.	10.	9.
MAY 4......	380.	50.	20.
MAY 18......	320.	110.	70.
JUNE 15......	250.	190.	180.
JUNE 29......	74.	17.	59.
AUG. 3......	2300.	1300.	200.
AUG. 17......	8700.	47.	53.
SEP. 14......	5300.	23.	4.
SEP. 28......	300.	16.	16.

K Less than.

07263450 ARKANSAS RIVER AT MURRAY DAM, AT LITTLE ROCK, ARK.

LOCATION.--Lat 34°47'27", long 92°21'32", in sec.23, T.2 N., R.13 W., Pulaski County, at gaging station in Murray Dam control house on right bank, and at mile 141.5.

DRAINAGE AREA.--158,030 sq mi, of which 22,241 sq mi is probably noncontributing.

PERIOD OF RECORD.--October 1968 to September 1971. Prior to October 1970, published as 07263500 Arkansas River at Little Rock.

EXTREMES.--1970-71:
Sediment concentrations: Maximum daily, 3,410 mg/l Oct. 29; minimum daily, 10 mg/l on several days during January and February.
Sediment discharge: Maximum daily, 1,430,000 tons Oct. 29; minimum daily, 78 tons Dec. 8.

Period of record:
Sediment concentrations: Maximum daily, 3,410 mg/l Oct. 29, 1970; minimum daily, 10 mg/l on many days in 1969, 1970, and 1971.
Sediment discharge: Maximum daily, 1,430,000 tons Oct. 29, 1970; minimum daily, 78 tons Dec. 8, 1970.

REMARKS.--Records furnished by Corps of Engineers, Little Rock, Ark. Unpublished sediment records prior to October 1968, are available at Corps of Engineers, Little Rock, Ark.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	28700	30	2320	105000	1600	453000	11600	20	625
2	36100	40	3890	96600	1250	326000	15100	20	814
3	29800	30	2410	93300	1090	274000	19000	20	1020
4	20100	20	1080	90000	950	231000	13000	20	701
5	11500	20	620	91500	1010	249000	6280	20	340
6	4620	20	248	74500	330	66300	4220	20	226
7	7630	20	412	57800	100	15600	3020	20	162
8	16000	20	863	47800	60	7730	1470	20	78
9	34300	40	3700	48700	60	7880	2400	20	129
10	40800	50	5500	59500	120	19200	3150	20	170
11	47000	60	7600	53200	80	11500	5640	20	305
12	50900	70	9610	49100	60	7940	3830	20	208
13	55900	90	13600	29100	30	2350	6820	20	367
14	57600	100	15500	34000	40	3670	4210	20	226
15	51400	70	9700	43200	50	5820	7170	20	386
16	42600	50	5740	48600	60	7860	11400	20	615
17	38400	40	4140	31600	30	2560	17200	20	927
18	30200	30	2440	26500	30	2140	13900	20	749
19	38700	40	4170	22800	30	1840	8530	20	461
20	41500	50	5590	26600	30	2150	9460	20	507
21	39600	40	4270	32100	30	2600	14700	20	793
22	41200	50	5550	29000	30	2350	27600	30	2230
23	27700	30	2240	15500	20	836	31100	30	2520
24	39200	40	4230	16800	20	906	35100	40	3780
25	67700	190	34700	5390	20	291	31700	30	2560
26	96300	1250	325000	5400	20	291	26200	30	2120
27	110000	1820	540000	5440	20	294	22300	30	1800
28	146000	3120	1230000	7330	20	396	12700	20	685
29	156000	3410	1430000	8510	20	458	17100	20	922
30	125000	2400	809000	16300	20	879	16700	20	900
31	113000	1940	592000	--	--	--	15800	20	852
TOTAL	1645450	--	5080000	1271170	--	1710000	418340	--	28200

07263450 ARKANSAS RIVER AT MURRAY DAM, AT LITTLE ROCK, ARK.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	15600	10	421	31900	10	590	58800	100	15900
2	11800	10	318	19700	10	531	47900	50	6460
3	15600	10	421	16200	10	437	43100	40	4650
4	44800	40	4830	22200	20	1200	43800	40	4720
5	60100	110	17800	39100	30	3160	37300	30	3020
6	66900	170	30700	25300	20	1360	38800	30	3140
7	69100	200	37300	22900	20	1240	32200	20	1740
8	64500	140	24300	13200	10	356	33000	30	2670
9	68000	190	34800	20000	10	539	45300	50	6110
10	56700	80	12200	33400	30	2700	48900	60	7910
11	47200	50	6360	29600	20	1600	51200	70	9660
12	41500	40	4480	28000	20	1510	47800	60	7730
13	36300	30	2940	48500	50	6540	45300	60	7330
14	42800	40	4620	43000	40	4640	33300	40	3590
15	65600	160	28300	22600	10	609	23200	30	1880
16	60800	110	18000	24600	20	1330	40700	50	5490
17	48400	50	6520	20100	10	542	27400	30	2220
18	37800	30	3060	35100	30	2840	17000	20	917
19	37500	30	3030	38600	30	3120	21800	20	1180
20	37200	30	3010	37100	30	3000	29800	30	2410
21	39200	30	3170	38000	30	3070	21000	20	1130
22	40800	40	4400	39400	30	3190	8210	20	442
23	30800	20	1660	54400	70	10300	20800	20	1120
24	15600	10	421	57800	90	14000	24400	30	1970
25	15500	10	418	50800	60	8220	16100	20	868
26	17800	10	480	46000	50	6200	15600	20	841
27	22800	20	1230	47000	50	6340	22100	30	1790
28	23500	20	1270	58600	100	15800	17000	20	917
29	14700	10	396	--	--	--	16100	20	868
30	14200	10	383	--	--	--	18600	20	1000
31	15500	10	418	--	--	--	12300	20	663
TOTAL	1178600	--	258000	953100	--	105000	958810	--	110000

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	10800	20	582	18100	30	1460	18300	40	1970
2	11700	20	631	14900	30	1200	12200	40	1320
3	5610	20	302	13200	30	1070	21400	40	2310
4	4200	20	226	11800	30	954	27600	50	3720
5	4300	20	232	16200	30	1310	38000	60	6150
6	11000	20	593	18000	30	1460	31600	50	4260
7	14400	20	776	18700	30	1510	20900	40	2250
8	6040	20	326	18000	30	1460	21500	40	2320
9	2650	20	143	7820	30	634	18200	40	1960
10	2570	20	137	10000	30	809	24800	50	3340
11	3910	20	210	26100	40	2820	28300	40	3050
12	2940	20	159	46300	70	8740	30800	50	4150
13	8090	20	491	36700	50	4950	31300	40	3380
14	11600	20	625	33100	50	4460	25700	40	2770
15	9490	20	539	27400	40	3000	26700	40	2880
16	9980	20	539	18900	30	1530	32800	50	4420
17	6390	20	345	7340	30	593	36300	50	4890
18	3360	20	181	13400	30	1080	38300	50	5160
19	3300	20	178	15700	40	1690	35900	50	4840
20	8420	20	453	13300	40	1430	28200	40	3040
21	16900	20	911	14100	40	1520	21700	30	1760
22	18000	20	971	6670	40	720	24900	40	2680
23	25900	30	2100	6940	40	749	22600	40	2440
24	21500	20	1160	16700	40	1800	21300	30	1720
25	27200	30	2200	31000	50	4180	22500	30	1820
26	17600	20	949	36300	60	5870	25200	30	2040
27	17800	20	960	33300	60	5390	19500	20	1050
28	16800	30	1360	26400	50	3560	12600	20	679
29	14500	30	1170	24800	50	3340	22800	30	1840
30	18000	30	1460	24600	50	3320	27400	30	2220
31		--	--	23200	50	3130	--	--	--
TOTAL	334950	--	20900	628970	--	75700	769300	--	86400

07263450 ARKANSAS RIVER AT MURRAY DAM, AT LITTLE ROCK, ARK.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	31900	30	2580	19100	20	1030	14900	20	803
2	27300	30	2210	4710	20	253	7640	20	412
3	27100	30	2190	16200	20	874	11200	20	604
4	11200	20	604	13500	20	728	9630	20	520
5	6770	20	364	16300	20	879	8680	20	469
6	11000	20	593	16600	20	895	9440	20	510
7	16200	20	874	35000	40	3770	29800	30	2410
8	18400	20	992	16900	20	911	41300	50	5570
9	20400	20	1100	11000	20	593	47500	60	7700
10	20700	20	1120	17700	20	954	44900	60	7260
11	21500	20	1160	20000	20	1080	32800	40	3540
12	15800	20	852	20500	20	1100	20500	20	1100
13	22300	30	1800	23100	30	1870	12000	20	647
14	16000	20	863	15100	20	814	13100	20	706
15	16200	20	981	10700	20	577	17300	20	933
16	21800	20	1180	7650	20	412	10400	20	561
17	24400	30	1970	12200	20	658	15400	20	830
18	8650	20	466	8900	20	480	9640	20	520
19	10500	20	566	14200	20	766	13800	20	744
20	25500	30	2060	13300	20	717	15900	20	857
21	22400	30	1810	12100	20	652	16900	20	911
22	18700	20	1010	11800	20	636	18200	20	981
23	16500	20	998	8680	20	469	17400	20	938
24	25200	30	2040	17600	20	949	16100	20	868
25	32600	40	4160	24100	30	1950	15500	20	836
26	23000	30	1860	22500	30	1820	10400	20	561
27	9160	20	493	20700	20	1120	19200	20	1040
28	16800	20	906	12100	20	652	19900	20	1070
29	16700	20	900	4940	20	264	19100	20	1030
30	19800	20	1070	10300	20	555	17600	20	949
31	17600	20	949	14500	20	782	--	--	--
TOTAL	596080	--	40700	771950	--	29200	556130	--	45900

07263620 ARKANSAS RIVER AT LOCK AND DAM NO. 6, BELOW LITTLE ROCK, ARK.

LOCATION.--Lat 34°40'07", long 92°09'16", sec.31, T.1 N., R.11 W., Pulaski County, at upper end of upstream wall at Lock and Dam No. 6, 10.3 miles downstream from Main Street bridge at Little Rock, and at mile 155.0.

DRAINAGE AREA.--158,288 sq mi, of which 22,241 sq mi is probably noncontributing.

PERIOD OF RECORD.--Chemical and biological analyses: October 1969 to September 1971.
Water temperature: October 1969 to September 1971.

REMARKS.--Mean discharge figures are for station 07263450, 16.8 miles upstream.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	TOTAL MERCURY (HG) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	NITRITE (NO2) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL AMMONIA ORGANIC NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT.												
07...	7630	--	100	0	32	60	.02	1.4	--	.60	.19	.13
NOV.												
02...	96600	<.5	44	0	14	13	.10	.8	--	.30	.00	.15
DEC.												
16...	11400	<.5	72	0	20	26	.00	1.6	.59	--	--	.082
JAN.												
14...	62000	--	72	0	23	53	.05	3.2	.57	--	--	.13
FEB.												
10...	33400	--	72	0	22	30	--	1.9	.69	--	--	.14
MAR.												
17...	77600	--	88	0	27	69	.04	2.4	--	--	--	.060
APR.												
14...	11600	--	96	0	30	67	.00	.2	.19	--	--	.12
JUNE												
04...	27600	--	90	0	27	85	.06	.7	--	--	--	.24
29...	22800	--	120	0	47	130	.03	.2	--	--	--	.070
JULY												
27...	9160	--	120	0	74	140	.08	.8	.30	--	--	.090
AUG.												
20...	13300	--	110	0	39	98	.09	.1	--	--	--	.13
SEP.												
27...	19200	--	116	0	45	130	.02	.2	--	--	--	.16

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.											
07...	105	23	82	350	7.6	20	12	2.0	E37000	E3400	72
NOV.											
02...	53	17	36	162	7.1	4	20	2.0	<34000	7000	500
DEC.											
16...	77	18	59	259	7.8	22	11	7.0	E26000	E20000	E140
JAN.											
14...	80	21	59	322	7.7	40	12	1.0	43000	5000	210
FEB.											
10...	80	21	59	271	7.6	23	9	2.0	44000	7700	740
MAR.											
17...	100	36	64	355	7.8	30	10	2.6	38000	4300	E24
APR.											
14...	100	22	79	365	8.0	3	15	4.0	60000	E7720	48
JUNE											
04...	99	25	74	480	8.0	5	6	3.6	E56000	E11000	100
29...	150	47	105	690	7.7	10	11	2.0	13000	6700	136
JULY											
27...	170	63	105	788	7.0	10	17	4.9	25000	7700	E16
AUG.											
20...	130	36	90	587	7.0	16	9	2.9	14000	E1000	E44
SEP.											
27...	150	55	95	689	7.8	2	14	6.0	34000	--	80

< Less than.
E Estimated.

07263620 ARKANSAS RIVER AT LOCK AND DAM NO. 6, BELOW LITTLE ROCK, ARK.--Continued

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.					
07...	23.0	--	8.2	6.7	77
NOV.					
02...	16.5	152	7.7	8.4	86
DEC.					
16...	9.0	272	8.1	10.4	90
JAN.					
14...	7.0	334	7.9	11.4	94
FEB.					
10...	4.0	292	7.6	12.4	95
MAR.					
17...	12.0	330	7.6	10.0	92
APR.					
14...	16.5	378	8.0	9.4	96
JUNE					
04...	25.0	684	7.7	6.8	83
29...	29.0	601	8.3	7.1	92
JULY					
27...	28.0	776	7.9	6.8	88
AUG.					
20...	26.0	564	8.5	6.8	83
SEP.					
27...	24.0	780	7.9	7.3	86

ANALYSES OF ADDITIONAL SAMPLES

DATE	DISSOLVED NATURAL URANIUM (U) (UG/L)	DISSOLVED NATURAL URANIUM (U) (UG/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)
OCT.							
07...	.9	--	.04	<2.3	<.8	8.6	11
NOV.							
02...	--	.06	.04	<1.3	<.4	4.3	5.6
DEC.							
16...	--	.39	.04	<2.0	<.7	4.4	5.5
FEB.							
10...	--	.26	.04	<1.1	<.4	4.0	5.0

DATE	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	TOTAL FILTERABLE RESIDUE (MG/L)	TOTAL NON-FILTERABLE RESIDUE (MG/L)
OCT.						
07...	1.2	.4	1.2	1.4	210	22
NOV.						
02...	6.2	2.1	6.0	6.8	97	120
DEC.						
10...	1.5	.5	1.3	1.5	150	22
FEB.						
10...	2.6	.9	2.2	2.5	140	31

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE									
29...	.00	.00	.00	.04	.00	.00	.00	.00	.00

DATE	CHLORDANE (UG/L)	PARATHION (UG/L)	METHYL PARATHION (UG/L)	MALATHION (UG/L)	DIAZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE								
29...	.00	.00	.00	.00	.00	.00	.00	.01

< Less than.

07263620 ARKANSAS RIVER AT LOCK AND DAM NO. 6, BELOW LITTLE ROCK, ARK.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	622	---	---	---	---	---	230	220	227	238	233	235
2	482	---	---	180	150	165	230	215	225	244	239	242
3	---	---	---	221	181	203	241	226	234	245	245	245
4	---	---	---	251	221	234	267	222	238	251	246	246
5	---	---	---	277	242	261	245	240	244	262	252	256
6	---	---	---	283	258	270	252	247	248	268	248	259
7	---	---	---	288	258	273	258	253	255	274	249	260
8	---	---	---	274	259	269	260	255	257	305	275	291
9	---	---	---	270	255	262	266	261	262	305	280	298
10	---	---	---	275	255	262	278	263	267	296	231	263
11	---	---	---	266	246	257	274	269	270	287	222	255
12	---	---	---	242	227	237	276	271	274	278	178	221
13	---	---	---	232	227	231	282	277	278	329	179	234
14	---	---	---	238	233	234	289	274	279	335	325	331
15	---	---	---	234	219	228	280	280	280	335	320	332
16	---	---	---	230	220	222	282	255	268	347	312	333
17	---	---	---	230	225	229	260	255	258	364	299	334
18	---	---	---	231	226	227	256	246	250	341	296	321
19	---	---	---	232	222	226	252	242	247	353	303	324
20	---	---	---	222	212	220	248	238	240	355	310	332
21	---	---	---	218	213	213	239	234	234	347	292	323
22	---	---	---	214	214	214	239	214	227	333	303	321
23	---	---	---	219	214	214	215	200	207	325	295	312
24	---	---	---	225	215	220	206	201	201	327	287	308
25	---	---	---	220	221	225	212	202	205	324	284	305
26	---	---	---	226	226	226	218	208	214	321	281	303
27	---	---	---	232	227	227	229	219	223	298	268	289
28	---	---	---	233	228	228	230	225	228	305	285	295
29	---	---	---	233	228	230	231	226	227	292	250	272
30	---	---	---	239	224	230	227	227	227	265	240	253
31	---	---	---	---	---	---	232	227	228	275	255	265
MONTH	---	---	---	288	150	232	289	200	243	364	178	286

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	294	264	279	268	258	260	416	351	385	---	---	---
2	299	294	297	270	255	260	399	354	378	---	---	---
3	304	299	299	268	258	267	402	362	381	---	---	---
4	309	284	299	285	270	281	410	375	394	---	---	---
5	293	268	289	278	263	268	383	348	363	---	---	---
6	273	253	266	291	266	279	370	340	355	---	---	---
7	273	248	268	278	273	277	413	343	374	---	---	---
8	282	272	278	296	276	282	391	346	370	---	---	---
9	292	282	287	308	298	304	419	344	391	---	---	---
10	300	292	296	336	296	311	407	347	373	---	---	---
11	300	290	295	343	318	331	400	350	372	---	---	---
12	304	264	297	351	316	334	392	332	367	---	---	---
13	303	288	297	359	314	338	405	365	383	---	---	---
14	287	262	273	381	341	352	383	373	378	---	---	---
15	266	256	262	369	334	355	---	---	---	---	---	---
16	260	250	257	366	346	354	---	---	---	---	---	---
17	255	235	244	364	339	354	---	---	---	---	---	---
18	234	219	229	372	357	366	---	---	---	---	---	---
19	233	213	221	380	370	377	---	---	---	---	---	---
20	247	217	237	378	368	375	---	---	---	---	---	---
21	266	241	252	370	370	370	---	---	---	---	---	---
22	245	230	236	373	368	372	---	---	---	---	---	---
23	244	239	242	371	366	370	---	---	---	---	---	---
24	258	233	246	369	364	368	---	---	---	---	---	---
25	240	222	233	367	347	354	---	---	---	---	---	---
26	240	230	235	384	349	368	---	---	---	---	---	---
27	243	233	240	392	387	389	---	---	---	---	---	---
28	260	245	252	385	355	373	---	---	---	---	---	---
29	---	---	---	393	343	378	---	---	---	---	---	---
30	---	---	---	401	341	374	---	---	---	---	---	---
31	---	---	---	404	359	387	---	---	---	---	---	---
MONTH	309	213	264	404	255	336	---	---	---	---	---	---

07263620 ARKANSAS RIVER AT LOCK AND DAM NO. 6, BELOW LITTLE ROCK, ARK.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	675	630	651	---	---	---
8	---	---	---	---	---	---	635	600	613	---	---	---
9	---	---	---	---	---	---	616	596	605	---	---	---
10	---	---	---	---	---	---	646	576	619	---	---	---
11	---	---	---	---	---	---	646	606	627	---	---	---
12	---	---	---	---	---	---	612	587	602	---	---	---
13	---	---	---	---	---	---	664	592	626	---	---	---
14	---	---	---	---	---	---	675	630	654	680	635	666
15	---	---	---	---	---	---	661	626	645	692	602	667
16	---	---	---	---	---	---	642	617	633	683	613	6[illegible]5
17	---	---	---	---	---	---	638	603	618	690	595	668
18	---	---	---	---	---	---	623	583	604	726	646	685
19	---	---	---	---	---	---	614	569	591	688	623	670
20	---	---	---	---	---	---	570	535	557	704	649	680
21	---	---	---	---	---	---	---	---	---	706	641	686
22	---	---	---	---	---	---	---	---	---	697	642	686
23	---	---	---	---	---	---	---	---	---	729	664	692
24	---	---	---	---	---	---	---	---	---	725	680	703
25	---	---	---	---	---	---	---	---	---	727	677	707
26	---	---	---	---	---	---	---	---	---	748	678	719
27	---	---	---	---	---	---	---	---	---	755	660	719
28	---	---	---	---	---	---	---	---	---	775	720	749
29	---	---	---	---	---	---	---	---	---	730	655	702
30	---	---	---	---	---	---	---	---	---	639	574	618
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PH, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	7.8	8.0	---	---	---	---	---	---	---	---	---
2	8.1	8.0	8.0	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07263620 ARKANSAS RIVER AT LOCK AND DAM NO. 6, BELOW LITTLE ROCK, ARK.--Continued

PH, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.7	7.4	7.6	8.3	7.9	8.1	---	---	---
2	---	---	---	7.7	7.4	7.6	8.4	7.9	8.2	---	---	---
3	---	---	---	7.9	7.4	7.6	8.6	8.3	8.4	---	---	---
4	---	---	---	7.6	7.4	7.5	8.7	8.3	8.5	---	---	---
5	---	---	---	7.6	7.2	7.4	8.8	8.4	8.6	---	---	---
6	---	---	---	7.6	5.9	6.9	8.8	8.6	8.7	---	---	---
7	---	---	---	7.7	7.2	7.6	8.6	8.4	8.6	---	---	---
8	---	---	---	7.6	7.4	7.4	8.6	8.5	8.5	---	---	---
9	---	---	---	7.6	6.6	7.4	8.7	8.3	8.5	---	---	---
10	7.9	7.0	7.3	7.5	6.3	6.9	8.6	8.5	8.5	---	---	---
11	8.1	7.2	7.5	7.5	7.0	7.3	8.6	8.1	8.3	---	---	---
12	8.4	7.6	8.1	6.9	6.4	6.7	8.5	8.3	8.4	---	---	---
13	8.7	7.2	7.9	7.0	6.6	6.7	8.4	8.2	8.3	---	---	---
14	7.8	6.9	7.3	7.8	6.8	7.1	8.0	7.9	8.0	---	---	---
15	7.7	6.7	7.3	7.8	7.5	7.6	---	---	---	---	---	---
16	7.8	6.6	7.4	7.9	7.6	7.7	---	---	---	---	---	---
17	8.1	6.2	7.4	7.8	7.6	7.7	---	---	---	---	---	---
18	8.2	6.5	7.3	7.9	7.7	7.8	---	---	---	---	---	---
19	8.3	6.3	7.5	7.9	7.7	7.9	---	---	---	---	---	---
20	8.0	6.8	7.4	8.0	7.7	7.8	---	---	---	---	---	---
21	7.8	6.3	7.1	8.0	7.7	7.8	---	---	---	---	---	---
22	7.4	7.0	7.2	8.1	7.7	8.0	---	---	---	---	---	---
23	7.7	6.8	7.2	8.0	7.8	7.9	---	---	---	---	---	---
24	7.6	7.1	7.3	8.2	7.8	7.9	---	---	---	---	---	---
25	7.4	6.9	7.3	8.2	7.7	7.9	---	---	---	---	---	---
26	8.6	6.3	7.2	7.9	7.6	7.7	---	---	---	---	---	---
27	7.6	7.3	7.5	8.0	7.6	7.8	---	---	---	---	---	---
28	7.7	7.5	7.5	8.0	7.5	7.7	---	---	---	---	---	---
29	---	---	---	8.2	7.6	7.8	---	---	---	---	---	---
30	---	---	---	8.0	7.8	7.9	---	---	---	---	---	---
31	---	---	---	8.2	8.1	8.1	---	---	---	---	---	---
MONTH	---	---	---	8.2	5.9	7.6	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	8.3	8.1	8.2	---	---	---
2	---	---	---	---	---	---	8.5	8.2	8.3	---	---	---
3	---	---	---	---	---	---	8.4	8.1	8.3	---	---	---
4	---	---	---	---	---	---	8.2	7.9	8.0	---	---	---
5	---	---	---	---	---	---	8.0	7.6	7.7	---	---	---
6	---	---	---	---	---	---	7.7	7.2	7.5	---	---	---
7	---	---	---	---	---	---	8.0	7.3	7.7	---	---	---
8	---	---	---	---	---	---	7.8	7.2	7.5	---	---	---
9	---	---	---	---	---	---	7.8	7.4	7.6	---	---	---
10	---	---	---	---	---	---	7.8	7.5	7.7	---	---	---
11	---	---	---	---	---	---	8.0	7.7	7.8	---	---	---
12	---	---	---	---	---	---	7.9	7.7	7.8	---	---	---
13	---	---	---	---	---	---	8.2	7.9	8.0	---	---	---
14	---	---	---	---	---	---	8.5	8.1	8.3	8.5	7.7	8.0
15	---	---	---	---	---	---	8.7	8.1	8.3	8.7	8.4	8.5
16	---	---	---	---	---	---	8.5	8.2	8.3	8.6	8.4	8.5
17	---	---	---	---	---	---	8.5	8.2	8.3	8.6	8.4	8.5
18	---	---	---	---	---	---	9.0	8.1	8.3	8.5	8.3	8.4
19	---	---	---	7.7	7.3	7.4	6.3	8.0	8.2	8.4	8.2	8.3
20	---	---	---	8.2	7.4	7.8	8.5	7.9	8.2	8.4	8.1	8.2
21	---	---	---	8.6	8.2	8.3	---	---	---	8.4	8.1	8.2
22	---	---	---	8.8	8.5	8.6	---	---	---	8.2	8.1	8.1
23	---	---	---	8.7	8.5	8.6	---	---	---	8.1	8.0	8.0
24	---	---	---	9.6	8.3	8.4	---	---	---	8.0	7.8	7.9
25	---	---	---	8.4	8.1	8.3	---	---	---	8.1	7.9	8.0
26	---	---	---	8.3	8.1	8.2	---	---	---	8.1	7.8	8.0
27	---	---	---	8.1	7.8	8.0	---	---	---	8.0	7.6	7.8
28	---	---	---	8.0	7.8	8.0	---	---	---	8.0	7.6	7.8
29	---	---	---	8.0	7.4	7.7	---	---	---	8.0	7.5	7.8
30	---	---	---	7.9	7.8	7.8	---	---	---	8.1	7.7	7.9
31	---	---	---	8.1	7.7	7.9	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07263620 ARKANSAS RIVER AT LOCK AND DAM NO. 6, BELOW LITTLE ROCK, ARK.--Continued

DISSOLVED OXYGEN (MG/L), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.2	7.3	7.6	---	---	---	10.0	9.3	9.7	13.9	10.7	11.2
2	8.1	7.7	7.9	9.0	8.7	8.8	9.8	9.4	9.6	12.4	11.0	11.4
3	---	---	---	9.3	8.8	9.0	9.7	9.2	9.4	11.3	10.9	11.1
4	---	---	---	9.5	9.1	9.3	9.5	9.1	9.3	---	---	---
5	---	---	---	10.0	9.3	9.7	9.6	8.9	9.3	---	---	---
6	---	---	---	10.3	9.7	10.0	9.6	9.2	9.4	---	---	---
7	---	---	---	10.3	9.8	10.1	9.6	9.2	9.4	---	---	---
8	---	---	---	10.3	10.0	10.1	10.1	9.4	9.7	---	---	---
9	---	---	---	10.2	9.9	10.0	10.2	9.7	9.9	12.6	11.3	11.7
10	---	---	---	10.4	9.9	10.1	10.1	9.6	9.8	12.0	11.4	11.7
11	---	---	---	10.5	10.0	10.2	9.9	9.5	9.7	13.9	11.4	11.9
12	---	---	---	10.3	10.1	10.2	10.1	9.5	9.8	12.1	11.4	11.7
13	---	---	---	10.3	10.0	10.1	10.2	9.5	9.9	11.8	11.2	11.5
14	---	---	---	10.3	9.9	10.0	10.2	9.8	10.0	12.0	11.3	11.6
15	---	---	---	10.3	9.7	10.0	10.6	10.1	10.3	12.4	11.6	11.8
16	---	---	---	10.4	10.0	10.2	11.7	10.0	10.7	12.8	11.6	11.8
17	---	---	---	10.5	10.1	10.3	12.4	10.5	11.0	12.4	11.7	12.1
18	---	---	---	10.4	10.0	10.2	11.8	10.7	11.3	12.2	11.5	11.8
19	---	---	---	10.3	9.9	10.1	11.6	10.9	11.3	12.0	11.1	11.5
20	---	---	---	10.2	9.9	10.1	12.0	11.0	11.2	11.7	10.9	11.4
21	---	---	---	10.4	9.9	10.1	11.5	10.3	11.0	11.6	11.2	11.5
22	---	---	---	10.4	10.0	10.2	10.6	10.0	10.3	12.0	11.4	11.6
23	---	---	---	10.6	10.2	10.4	10.9	10.3	10.6	11.5	11.1	11.3
24	---	---	---	10.6	10.0	10.3	---	---	---	---	---	---
25	---	---	---	10.4	10.1	10.2	---	---	---	---	---	---
26	---	---	---	10.5	10.0	10.3	---	---	---	11.4	10.4	10.8
27	---	---	---	10.4	10.0	10.3	---	---	---	11.3	10.6	10.9
28	---	---	---	10.2	9.4	9.9	11.3	10.9	11.1	11.0	10.5	10.7
29	---	---	---	9.9	9.4	9.7	---	---	---	---	---	---
30	---	---	---	10.0	9.5	9.7	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	10.6	8.7	10.0	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	10.7	10.4	10.5	10.5	10.1	10.2	---	---	---
2	---	---	---	10.6	10.2	10.4	11.4	10.3	10.8	---	---	---
3	---	---	---	10.5	10.0	10.3	12.5	10.6	11.3	---	---	---
4	---	---	---	10.5	9.9	10.3	13.2	11.0	11.8	---	---	---
5	---	---	---	10.6	10.2	10.3	12.0	10.8	11.3	---	---	---
6	---	---	---	10.4	10.0	10.2	11.4	10.8	11.1	---	---	---
7	---	---	---	10.2	9.8	10.0	11.5	10.5	10.9	---	---	---
8	---	---	---	10.3	9.9	10.1	11.5	10.6	11.0	---	---	---
9	---	---	---	10.6	10.1	10.3	11.8	10.1	10.8	---	---	---
10	12.6	12.2	12.4	10.8	10.1	10.4	11.9	10.2	11.0	---	---	---
11	12.5	12.2	12.4	10.7	10.3	10.5	10.9	9.3	10.0	---	---	---
12	12.6	12.2	12.4	10.7	10.3	10.5	10.3	9.6	9.9	---	---	---
13	12.7	12.0	12.3	10.8	10.2	10.5	9.8	8.8	9.3	---	---	---
14	12.5	11.9	12.3	10.9	10.2	10.5	9.4	8.8	9.0	---	---	---
15	12.4	11.9	12.2	10.7	10.0	10.3	---	---	---	---	---	---
16	12.1	11.6	11.9	10.3	9.6	9.9	---	---	---	---	---	---
17	11.9	11.6	11.8	10.5	9.9	10.2	---	---	---	---	---	---
18	12.0	11.5	11.6	10.4	9.5	10.1	---	---	---	---	---	---
19	11.9	11.2	11.5	10.1	9.5	9.8	---	---	---	---	---	---
20	11.7	11.3	11.4	10.3	9.9	10.0	---	---	---	---	---	---
21	11.5	10.8	11.1	10.4	9.8	10.1	---	---	---	---	---	---
22	10.9	10.5	10.8	10.0	9.7	9.9	---	---	---	---	---	---
23	11.2	10.6	10.9	10.2	9.7	9.9	---	---	---	---	---	---
24	11.2	10.7	10.9	10.1	9.8	9.9	---	---	---	---	---	---
25	10.8	10.5	10.7	10.1	9.3	9.6	---	---	---	---	---	---
26	10.7	10.3	10.5	9.7	9.1	9.4	---	---	---	---	---	---
27	10.9	10.2	10.5	9.8	9.3	9.6	---	---	---	---	---	---
28	10.8	10.2	10.6	10.0	9.4	9.8	---	---	---	---	---	---
29	---	---	---	10.2	9.4	9.8	---	---	---	---	---	---
30	---	---	---	10.3	9.9	10.0	---	---	---	---	---	---
31	---	---	---	10.8	10.2	10.4	---	---	---	---	---	---
MONTH	---	---	---	10.9	9.1	10.1	---	---	---	---	---	---

07263620 ARKANSAS RIVER AT LOCK AND DAM NO. 6, BELOW LITTLE ROCK, ARK.--Continued

DISSOLVED OXYGEN (MG/L), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	8.6	7.3	7.9	---	---	---
2	---	---	---	---	---	---	9.7	7.1	8.0	---	---	---
3	---	---	---	---	---	---	7.7	6.3	6.8	---	---	---
4	---	---	---	---	---	---	6.5	5.8	6.2	---	---	---
5	---	---	---	---	---	---	6.2	5.7	5.9	---	---	---
6	---	---	---	---	---	---	6.3	5.6	6.0	---	---	---
7	---	---	---	---	---	---	6.7	5.0	5.7	---	---	---
8	---	---	---	---	---	---	6.7	5.8	6.1	---	---	---
9	---	---	---	---	---	---	6.2	5.6	6.0	---	---	---
10	---	---	---	---	---	---	6.6	5.4	5.9	---	---	---
11	---	---	---	---	---	---	7.8	6.0	6.6	---	---	---
12	---	---	---	---	---	---	6.7	5.9	6.3	---	---	---
13	---	---	---	---	---	---	6.9	5.9	6.3	---	---	---
14	---	---	---	---	---	---	7.9	6.3	6.7	8.3	6.9	7.1
15	---	---	---	---	---	---	9.0	6.3	7.2	8.6	7.1	7.5
16	---	---	---	---	---	---	8.9	6.7	7.4	7.6	6.7	7.1
17	---	---	---	---	---	---	9.0	7.3	8.1	7.7	6.3	7.0
18	---	---	---	---	---	---	---	---	---	7.8	6.4	6.8
19	---	---	---	7.1	6.1	6.7	9.0	7.3	8.0	7.0	6.1	6.5
20	---	---	---	6.8	5.7	6.2	8.4	6.8	7.8	7.6	6.0	6.6
21	---	---	---	8.4	5.9	7.0	---	---	---	7.7	6.4	7.0
22	---	---	---	9.2	7.2	7.9	---	---	---	7.3	6.8	7.0
23	---	---	---	8.1	6.9	7.5	---	---	---	7.7	6.9	7.2
24	---	---	---	6.9	6.1	6.4	---	---	---	7.7	7.2	7.5
25	---	---	---	7.1	6.1	6.6	---	---	---	8.1	7.2	7.5
26	---	---	---	7.1	6.5	6.8	---	---	---	8.0	7.1	7.5
27	---	---	---	6.8	5.9	6.4	---	---	---	7.6	6.1	7.2
28	---	---	---	6.5	5.2	5.9	---	---	---	7.5	6.4	7.0
29	---	---	---	6.4	5.5	5.8	---	---	---	7.5	6.9	7.3
30	---	---	---	7.0	6.1	6.5	---	---	---	8.0	7.1	7.5
31	---	---	---	8.1	6.7	7.4	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

WATER TEMPERATURE (°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.5	24.0	24.5	---	---	---	12.0	11.5	12.0	6.5	6.5	6.5
2	25.0	24.5	24.5	15.5	14.5	15.0	12.5	12.0	12.5	7.0	6.5	6.5
3	---	---	---	15.0	14.0	14.5	13.5	12.5	13.0	7.5	7.0	7.0
4	---	---	---	14.5	13.5	14.0	13.5	13.5	13.5	7.5	7.0	7.0
5	---	---	---	13.5	13.0	13.5	---	---	---	6.5	6.0	6.0
6	---	---	---	13.5	12.5	13.0	---	---	---	6.0	5.0	5.5
7	---	---	---	13.5	11.5	13.0	---	---	---	5.0	4.5	4.5
8	---	---	---	13.5	13.0	13.0	---	---	---	4.5	4.5	4.5
9	---	---	---	14.0	13.5	13.5	---	---	---	4.5	4.0	4.0
10	---	---	---	13.5	13.0	13.0	---	---	---	4.5	4.0	4.5
11	---	---	---	13.0	12.5	13.0	---	---	---	5.0	4.5	5.0
12	---	---	---	13.0	12.5	12.5	---	---	---	5.0	5.0	5.0
13	---	---	---	13.0	11.5	12.5	---	---	---	6.5	5.5	5.5
14	---	---	---	12.5	11.0	12.0	---	---	---	7.5	6.5	7.0
15	---	---	---	11.0	10.0	10.5	---	---	---	7.5	7.0	7.0
16	---	---	---	10.5	10.0	10.0	9.0	8.0	8.5	6.5	6.5	6.5
17	---	---	---	10.5	9.5	10.0	8.0	7.5	8.0	7.0	6.5	6.5
18	---	---	---	10.5	9.5	10.0	7.5	7.5	7.5	7.0	6.0	6.5
19	---	---	---	11.0	10.0	10.5	8.0	8.0	8.0	6.0	6.0	6.0
20	---	---	---	11.0	10.0	10.5	8.0	8.0	8.0	6.0	5.5	5.5
21	---	---	---	11.0	10.5	11.0	8.0	7.5	7.5	6.0	5.5	5.5
22	---	---	---	11.0	10.5	11.0	8.5	8.0	8.0	6.0	5.5	6.0
23	---	---	---	10.5	9.0	9.5	9.0	8.5	9.0	6.5	6.0	6.0
24	---	---	---	8.5	7.5	8.0	9.0	8.0	8.5	7.0	6.5	6.5
25	---	---	---	8.0	7.5	7.5	8.5	7.5	8.0	7.5	6.5	7.0
26	---	---	---	8.0	7.5	8.0	7.5	7.0	7.0	8.0	7.5	7.5
27	---	---	---	9.5	8.0	9.0	7.0	6.5	7.0	7.5	7.0	7.0
28	---	---	---	10.5	9.5	10.0	7.0	6.5	6.5	7.0	7.0	7.0
29	---	---	---	11.0	10.0	10.5	7.0	7.0	7.0	7.5	7.0	7.0
30	---	---	---	11.0	10.5	11.0	7.0	6.5	7.0	8.0	7.5	8.0
31	---	---	---	---	---	---	7.0	6.5	6.5	8.0	7.5	8.0
MONTH	---	---	---	15.5	7.5	11.5	---	---	---	8.0	4.0	6.0

07263620 ARKANSAS RIVER AT LOCK AND DAM NO. 6, BELOW LITTLE ROCK, ARK.--Continued

WATER TEMPERATURE (°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	7.0	7.0	10.0	9.5	9.5	13.5	12.5	13.0	---	---	---
2	7.0	6.5	6.5	9.5	8.5	9.0	13.5	12.5	13.0	---	---	---
3	6.5	6.0	6.0	8.5	8.0	8.0	13.5	12.5	13.0	---	---	---
4	7.0	6.0	6.5	8.5	8.0	8.0	14.0	13.0	13.5	---	---	---
5	7.5	6.5	7.0	9.0	7.5	8.0	13.5	13.0	13.0	---	---	---
6	7.0	6.5	6.5	9.0	8.5	9.0	13.0	12.0	12.5	---	---	---
7	6.5	6.0	6.5	8.5	8.0	8.5	12.5	11.5	12.0	---	---	---
8	6.0	5.0	5.5	8.5	8.0	8.0	13.5	12.0	12.5	---	---	---
9	5.0	4.0	4.5	8.5	8.0	8.0	15.0	13.0	13.5	---	---	---
10	4.5	4.0	4.0	9.0	8.0	8.5	15.0	14.0	14.5	---	---	---
11	4.5	4.0	4.0	8.5	8.0	8.5	16.0	14.5	15.0	---	---	---
12	5.5	4.5	5.0	9.5	8.5	8.5	16.5	15.5	16.0	---	---	---
13	4.5	4.0	4.5	10.5	9.0	9.5	17.0	16.5	16.5	---	---	---
14	5.0	4.0	4.5	12.0	10.5	11.0	17.0	16.5	16.5	---	---	---
15	5.5	5.0	5.0	12.5	12.0	12.0	---	---	---	---	---	---
16	6.0	5.5	6.0	12.5	12.0	12.0	---	---	---	---	---	---
17	7.0	6.5	6.5	12.0	11.5	12.0	---	---	---	---	---	---
18	8.5	7.0	7.5	12.0	11.0	11.5	---	---	---	---	---	---
19	9.5	8.5	9.0	11.0	9.5	10.5	---	---	---	---	---	---
20	10.0	9.0	9.5	10.0	9.5	10.0	---	---	---	---	---	---
21	10.0	9.5	9.5	10.0	9.5	10.0	---	---	---	---	---	---
22	9.5	8.0	8.5	10.0	9.5	10.0	---	---	---	---	---	---
23	8.5	7.5	8.0	10.0	9.5	9.5	---	---	---	---	---	---
24	9.0	8.0	8.5	10.0	9.5	9.5	---	---	---	---	---	---
25	9.5	8.5	9.0	10.0	9.0	9.5	---	---	---	---	---	---
26	11.0	9.5	10.0	9.5	9.0	9.5	---	---	---	---	---	---
27	10.5	10.0	10.5	10.5	9.5	10.0	---	---	---	---	---	---
28	10.5	10.0	10.0	11.0	10.5	11.0	---	---	---	---	---	---
29	---	---	---	11.5	10.5	11.0	---	---	---	---	---	---
30	---	---	---	11.5	11.0	11.5	---	---	---	---	---	---
31	---	---	---	12.5	11.5	12.0	---	---	---	---	---	---
MONTH	11.0	4.0	7.0	12.5	7.5	10.0	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	27.5	27.0	27.0	---	---	---
2	---	---	---	---	---	---	27.0	27.0	27.0	---	---	---
3	---	---	---	---	---	---	27.0	26.0	26.5	---	---	---
4	---	---	---	---	---	---	26.5	26.0	26.0	---	---	---
5	---	---	---	---	---	---	26.0	25.5	26.0	---	---	---
6	---	---	---	---	---	---	26.0	25.5	25.5	---	---	---
7	---	---	---	---	---	---	26.0	25.5	26.0	---	---	---
8	---	---	---	---	---	---	26.5	25.5	26.0	---	---	---
9	---	---	---	---	---	---	27.0	26.0	26.5	---	---	---
10	---	---	---	---	---	---	27.5	26.5	27.0	---	---	---
11	---	---	---	---	---	---	28.5	27.5	28.0	---	---	---
12	---	---	---	---	---	---	28.0	27.5	28.0	---	---	---
13	---	---	---	---	---	---	28.5	27.5	28.0	---	---	---
14	---	---	---	---	---	---	28.5	28.0	28.5	28.5	28.0	26.5
15	---	---	---	---	---	---	28.5	27.5	28.0	28.5	28.0	28.0
16	---	---	---	---	---	---	28.0	27.5	27.5	28.0	27.5	27.5
17	---	---	---	---	---	---	27.5	27.0	27.5	27.5	27.0	27.0
18	---	---	---	---	---	---	28.0	26.0	26.5	27.0	26.5	27.0
19	---	---	---	31.5	30.5	31.0	27.0	26.0	26.5	26.5	25.5	26.5
20	---	---	---	31.0	30.0	30.5	26.5	26.0	26.0	25.5	24.5	25.0
21	---	---	---	31.0	30.0	30.5	---	---	---	24.5	24.0	24.5
22	---	---	---	31.0	30.5	30.5	---	---	---	24.0	23.5	23.5
23	---	---	---	30.5	29.5	30.0	---	---	---	23.5	23.0	23.0
24	---	---	---	29.5	29.0	29.0	---	---	---	23.0	23.0	23.0
25	---	---	---	29.5	29.0	29.0	---	---	---	23.5	23.0	23.0
26	---	---	---	29.5	29.0	29.5	---	---	---	24.0	23.0	23.5
27	---	---	---	29.0	28.5	29.0	---	---	---	24.5	22.5	24.0
28	---	---	---	28.5	28.0	28.5	---	---	---	24.5	24.0	24.5
29	---	---	---	28.5	27.5	28.5	---	---	---	25.0	24.5	24.5
30	---	---	---	28.5	27.5	28.0	---	---	---	25.0	24.5	25.0
31	---	---	---	28.0	27.0	27.5	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07264000 BAYOU METO NEAR LONOKE, ARK.

LOCATION.--Lat 34°44'10", long 91°54'58", in SW¼ sec.6, T.1 N., R.8 W., Lonoke County, at gaging station near left bank on downstream side of bridge on State Highway 31, 3 miles upstream from Brushy Slough, 3.5 miles south of Lonoke, and at mile 106.4.

DRAINAGE AREA.--207 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1971 (1969-71 includes biological).

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.												
28...	302	7.2	--	--	--	--	--	--	--	--	--	--
DEC.												
01...	46	--	--	--	--	--	--	--	--	--	--	--
JAN.												
18...	201	--	100	50	0	5	0	0	10	3	--	160
FEB.												
10...	198	--	--	--	--	--	--	--	--	--	--	--
MAR.												
16...	310	--	--	--	--	--	--	--	--	--	--	--
APR.												
20...	66	3.4	20	190	1	1	4	7	0	7	0	10
MAY												
26...	321	--	--	--	--	--	--	--	--	--	--	--
JUNE												
16...	41	--	--	--	--	--	--	--	--	--	--	--
JULY												
28...	E15	--	60	130	0	2	0	0	0	2	0	20
SEP.												
01...	32	--	--	--	--	--	--	--	--	--	--	--
29...	6.4	--	--	--	--	--	--	--	--	--	--	--

DATE	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
28...	37	41	1.2	171	6.8	4	80	37	6.0	6200	3000	2800
DEC.												
01...	--	--	--	182	7.0	40	100	21	7.0	225	144	133
JAN.												
18...	--	--	--	133	7.3	80	25	20	2.0	387	222	72
FEB.												
10...	--	--	--	99	6.9	85	55	22	3.0	410	330	640
MAR.												
16...	--	--	--	87	6.8	60	39	17	3.0	350	E100	E48
APR.												
20...	62	29	.7	224	7.9	18	88	33	8.0	--	--	--
MAY												
26...	--	--	--	160	7.5	100	460	36	--	E4000	E2000	E2000
JUNE												
16...	--	--	--	237	7.2	50	180	28	5.0	2600	1300	600
JULY												
28...	--	--	--	294	7.5	25	160	35	6.9	E160	--	E1600
SEP.												
01...	--	--	--	256	7.7	3	--	1	2.6	2900	870	1700
29...	--	--	--	336	7.1	25	60	29	3.5	1600	E300	700

FIELD ANALYSES

DATE	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.					
28...	16.0	--	6.3	7.7	78
DEC.					
01...	14.5	185	6.9	--	--
JAN.					
18...	7.0	124	7.2	7.6	63
FEB.					
10...	4.0	106	6.9	8.5	65
MAR.					
16...	15.5	89	6.7	8.9	89
APR.					
20...	21.0	236	6.7	5.4	60
MAY					
26...	19.5	100	7.3	5.8	62
JUNE					
16...	28.0	233	7.9	3.9	49
JULY					
28...	25.5	304	8.1	4.5	55
SEP.					
01...	24.0	244	7.6	6.8	88
29...	26.0	--	--	4.1	50

E Estimated.

07264000 BAYOU METO NEAR LONOKE, ARK.--Continued

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL MERCURY (HG) (UG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL AMMONIA ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT.												
28...	--	19	6.4	49	0	27	20	2.5	1.5	.25	--	--
DEC.												
01...	<.5	--	--	--	--	--	--	--	.76	.39	--	--
JAN.												
18...	--	--	--	--	--	--	--	--	.55	.39	--	--
FEB.												
10...	--	--	--	--	--	--	--	--	.47	.20	--	--
MAR.												
16...	--	--	--	--	--	--	--	--	.35	.22	--	--
APR.												
20...	--	14	2.6	76	0	18	16	2.8	.72	.19	73	11
MAY												
26...	--	--	--	--	--	--	--	--	.81	.36	--	--
JUNE												
16...	--	--	--	--	--	--	--	--	1.0	.25	--	--
JULY												
28...	--	--	--	--	--	--	--	--	1.0	.50	--	--
SEP.												
01...	--	--	--	--	--	--	--	--	.26	--	--	--
29...	--	--	--	--	--	--	--	--	1.2	.18	--	--

ANALYSIS OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE									
16...	.00	.00	.01	.00	.01	.00	.00	.00	.00

DATE	CHLORDANE (UG/L)	PARATHION (UG/L)	METHYL PARATHION (UG/L)	MALATHION (UG/L)	DIAZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE								
16...	.00	.00	.00	.00	.00	.00	.26	.18

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
JUNE								
16...	<.20	16	32	48	<.20	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)
JUNE								
16...	<.20	<1.0	<.20	<.20	<.20	<2.2	<.60	<.70

< Less than.

07264500 BAYOU METO NEAR STUTTGART, ARK.

LOCATION.--Lat 34°27'15", long 91°36'58", in SE¼SE¼ sec.11, T.3 S., R.6 W., Arkansas County, at bridge on U.S. Highway 79, 5.5 miles southwest of Stuttgart, 8.0 miles upstream from Crooked Creek.

DRAINAGE AREA.--574 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1949 to September 1952.
Chemical and biological analyses: October 1968 to September 1971.
Water temperature: November 1949 to September 1952.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 7, 1970	22.	-	-	-	-	-	24.5	-	-	-
OCT. 21......	20.	-	-	-	-	-	23.5	-	-	-
NOV. 4......	14.	-	-	-	-	-	12.0	-	-	-
NOV. 19......	10.	-	-	-	-	-	19.0	-	-	-
DEC. 2......	14.	-	-	-	-	-	20.5	-	-	-
DEC. 15......	8.	1010.	0	14.4	9.80	10.8	31.0	0.05	0.100	164.
JAN. 13, 1971	8.	-	-	-	-	-	8.0	-	-	-
JAN. 26......	7.	-	-	-	-	-	11.0	-	-	-
FEB. 10......	6.	-	-	-	-	-	13.0	-	-	-
FEB. 24......	11.	-	-	-	-	-	9.5	-	-	-
MAR. 11......	9.	-	-	-	-	-	9.0	-	-	-
MAR. 23......	12.	2040.	0	9.6	4.40	1.K	7.0	0.55	0.820	244.
APR. 14......	20.	-	-	-	-	-	11.0	-	-	-
APR. 27......	20.	-	-	-	-	-	17.5	-	-	-
MAY .27......	21.	-	-	-	-	-	7.0	-	-	-
JUNE 23......	27.	1600.	100.0	14.4	6.30	-	13.0	1.40	-	319.
JULY 27......	26.	-	-	-	-	-	7.0	-	-	-
AUG. 9......	31.	-	-	-	-	-	16.5	-	-	-
AUG. 11......	29.	-	-	-	-	-	10.5	-	-	-
AUG. 24......	29.	-	-	-	-	-	7.5	-	-	-
SEP. 8......	31.	-	-	-	-	-	16.5	-	-	-
SEP. 21......	22.	400.	0	18.4	7.30	5.0	18.5	0.10	1.200	273.
SEP. 23......	24.	-	-	-	-	-	14.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 7, 1970	-	-	110.	250.	7.10	-	80.	3.0	4.3
OCT. 21......	-	-	100.	229.	7.70	-	30.	3.8	10.4
NOV. 4......	-	-	26.	81.	6.10	-	80.	3.5	7.8
NOV. 19......	-	-	33.	111.	7.00	-	55.	1.7	9.3
DEC. 2......	-	-	36.	133.	7.10	-	100.	2.0	7.6
DEC. 15......	60.	36.0	43.	140.	6.70	40.	55.	2.0	10.1
JAN. 13, 1971	-	-	18.	77.	6.20	-	100.	2.4	8.6
JAN. 26......	-	-	32.	108.	7.20	-	45.	2.0	8.6
FEB. 10......	-	-	44.	105.	7.10	-	60.	2.0	11.7
FEB. 24......	-	-	24.	85.	6.90	-	140.	2.4	8.5
MAR. 11......	-	-	22.	81.	7.00	-	80.	1.6	9.2
MAR. 23......	32.	14.0	23.	67.	6.60	160.	120.	2.9	7.9
APR. 14......	-	-	35.	109.	7.20	-	140.	9.0L	9.0
APR. 27......	-	-	45.	137.	7.30	-	120.	6.2	6.3
MAY 27......	-	-	30.	83.	6.90	-	170.	3.6	5.1
JUNE 23......	62.	36.0	39.	161.	7.20	80.	210.	5.1	3.9
JULY 27......	-	-	-	111.	7.10	-	150.	7.2	9.6
AUG. 9......	-	-	-	242.	7.70	-	-	-	-
AUJ. 11......	-	-	34.	121.	7.00	-	45.	2.7	14.2
AUG. 24......	-	-	49.	105.	6.90	-	40.	3.5	4.2
SEP. 8......	-	-	94.	246.	7.70	-	150.	3.7	6.3
SEP. 21......	76.	46.0	72.	175.	7.20	40.	40.	4.0	6.6
SEP. 23......	-	-	-	-	6.70	-	-	-	-

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
DEC. 15, 1970	180.	93.	30.
MAR. 23, 1971	250.	130.	430.
JUNE 26, 1971	200.	140.	350.
SEP. 21......	360.	80.	355.

L Greater than.

07265283 ARKANSAS RIVER AT DAM NO. 2

LOCATION.--Lat 33°59'18", long 91°18'59", in sec.20, T.8 S., R.3 W., Arkansas County, 2 miles downstream from Arkansas Post Canal, and 9.8 miles southeast of Gillett.

DRAINAGE AREA.--160,475 sq mi.

PERIOD OF RECORD.--Chemical and biological analyses: October 1969 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 7, 1970	23.	-	-	-	-	-	70.0	-	-	-
OCT. 21......	18.	-	-	-	-	-	93.0	-	-	-
NOV. 4......	14.	-	-	-	-	-	18.0	-	-	-
NOV. 18......	13.	-	-	-	-	-	32.5	-	-	-
DEC. 2......	12.	-	-	-	-	-	34.5	-	-	-
DEC. 15......	11.	570.	0	21.6	8.50	15.9	31.0	0.26	0.210	160.
JAN. 13, 1971	8.	-	-	-	-	-	39.5	-	-	-
JAN. 25......	7.	-	-	-	-	-	39.5	-	-	-
FEB. 10......	4.	-	-	-	-	-	33.0	-	-	-
FEB. 24......	10.	-	-	-	-	-	24.5	-	-	-
MAR. 10......	10.	-	-	-	-	-	35.0	-	-	-
MAR. 24......	9.	1060.	0	24.8	6.40	14.2	43.0	0.47	0.320	232.
APR. 14......	16.	-	-	-	-	-	44.0	-	-	-
APR. 26......	21.	-	-	-	-	-	53.5	-	-	-
MAY 25......	23.	-	-	-	-	-	53.0	-	-	-
JUNE 22......	28.	200.	50.0K	45.6	10.00	1.0K	213.0	0.90	-	569.
JULY 26......	27.	-	-	-	-	-	156.0	-	-	-
AUG. 11......	29.	-	-	-	-	-	99.0	-	-	-
AUG. 24......	29.	-	-	-	-	-	78.0	-	-	-
SEP. 8......	29.	-	-	-	-	-	77.0	-	-	-
SEP. 21......	24.	100.	0	40.0	10.20	26.4	91.0	0.10	1.000	370.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 7, 1970	-	-	108.	408.	7.80	-	40.	2.3	7.3
OCT. 21......	-	-	76.	282.	7.90	-	70.	1.4	9.4
NOV. 4......	-	-	38.	120.	6.60	-	130.	1.4	9.7
NOV. 18......	-	-	99.	215.	7.60	-	65.	1.4	11.1
DEC. 2......	-	-	98.	227.	7.80	-	25.K	4.3	10.4
DEC. 15......	89.	54.0	65.	202.	7.40	40.	25.K	1.0	11.0
JAN. 13, 1971	-	-	53.	255.	7.10	-	45.	2.9	12.5
JAN. 25......	-	-	57.	253.	7.50	-	25.K	4.1	12.2
FEB. 10......	-	-	75.	109.	7.20	-	35.	1.6	12.6
FEB. 24......	-	-	57.	187.	7.60	-	55.	2.2	12.4
MAR. 10......	-	-	56.	244.	7.60	-	55.	6.0	10.8
MAR. 24......	88.	62.0	66.	258.	7.70	80.	40.	1.9	10.9
APR. 14......	-	-	78.	317.	8.10	-	35.	5.8	6.9
APR. 26......	-	-	81.	319.	8.00	-	35.	7.7L	7.7
MAY 25......	-	-	61.	307.	7.60	-	95.	6.8	7.1
JUNE 22......	155.	114.0	100.	1000.	8.00	10.	30.	2.6	7.1
JULY 26......	-	-	109.	833.	8.20	-	25.	8.6	6.4
AUG. 11......	-	-	83.	508.	8.00	-	50.	4.8L	5.0
AUG. 24......	-	-	-	531.	7.20	-	45.	5.6	5.1
SEP. 8......	-	-	88.	515.	7.90	-	35.	9.0L	4.9
SEP. 21......	144.	102.0	99.	561.	7.90	15.	55.	1.4	6.2

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCA MF/100ML
DEC. 15, 1970	160.	22.	10.
MAR. 24, 1971	350.	160.	10.
JUNE 22......	13.	8.	7.
SEP. 21......	390.	300.	160.

K Less than.
L Greater than.

07265455 MISSISSIPPI RIVER NEAR GREENVILLE, MISS.

LOCATION.--Lat 33°17'33", long 91°09'38", in sec.24, T.16 S., R.1 W., Chicot County, at Corps of Engineers gaging station at bridge on U.S. Highway 82, 7.2 miles southwest of Greenville.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 20, 1970	16.	-	-	-	-	-	20.5	-	-	-
NOV. 17......	10.	-	-	-	-	-	31.5	-	-	-
DEC. 22......	11.	350.	30.0	36.0	21.10	31.5	24.5	1.02	0.430	273.
FEB. 23, 1971	5.	-	-	-	-	-	15.5	-	-	-
MAR. 16......	10.	1200.	20.0	31.2	10.00	25.2	14.0	1.42	0.520	421.
APR. 27......	19.	-	-	-	-	-	18.0	-	-	-
MAY 25......	20.	-	-	-	-	-	14.5	-	-	-
JUNE 15......	27.	-	-	-	-	-	25.0	-	-	-
JULY 27......	27.	-	-	-	-	-	32.0	-	-	-
AUG. 24......	28.	-	-	-	-	-	20.5	-	-	-
SEP. 28......	25.	-	-	39.0	13.60	-	24.5	1.00	-	270.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00076 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 20, 1970	-	-	126.	370.	7.80	-	120.	0.9	8.3
NOV. 17......	-	-	107.	344.	7.90	-	95.	1.3	9.9
DEC. 22......	177.	90.0	121.	415.	7.40	5.	100.	2.4	11.0
FEB. 23, 1971	-	-	81.	249.	7.00	-	250.	2.2	11.4
MAR. 16......	119.	78.0	81.	244.	7.50	30.	150.	1.7	10.2
APR. 27......	-	-	117.	389.	7.90	-	95.	1.3	7.7
MAY 25......	-	-	87.	299.	7.80	-	180.	0.9	7.3
JUNE 15......	-	-	114.	450.	7.80	-	120.	0.6	6.7
JULY 27......	-	-	119.	465.	8.50	-	110.	1.6	8.8
AUG. 24......	-	-	105.	403.	7.30	-	35.	1.0	6.9
SEP. 28......	154.	98.0	135.	425.	8.10	-	55.	-	-

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STRCOCCI K-ENTCCS MF/100ML
MAR. 16, 1971	15000.	760.	70.
JUNE 15......	14000.	13000.	63.
SEP. 28......	4800.	1300.	43.

07338720 MOUNTAIN FORK NEAR HATFIELD, ARK.

LOCATION.--Lat 34°30'12", long 94°25'50", in NE¼NE¼ sec.17, T.3 S., R.32 W., Polk County, at bridge on State Highway 246, 3.1 miles northwest of Hatfield.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 5, 1970	24.	-	-	-	-	-	2.0	-	-	-
OCT. 19.......	18.	-	-	-	-	-	1.5	-	-	-
DEC. 14.......	10.	-	-	-	-	-	4.0	-	-	-
JAN. 11, 1971	7.	-	-	-	-	-	6.0	-	-	-
FEB. 23.......	9.	-	-	-	-	-	8.5	-	-	-
MAR. 22.......	13.	-	-	-	-	-	1.0	-	-	-
APR. 12.......	21.	-	-	-	-	-	3.0	-	-	-
APR. 27.......	20.	-	-	-	-	-	1.0	-	-	-
MAY 10.......	-	-	-	-	-	-	2.0	-	-	-
JUNE 8.......	25.	300.	30.0K	2.4	1.90	8.0	2.0	0.10K	0.100K	28.
JUNE 23.......	28.	-	-	-	-	-	2.0	-	-	-
JULY 27.......	27.	-	-	-	-	-	2.0	-	-	-
AUG. 9.......	29.	-	-	-	-	-	3.5	-	-	-
AUG. 18.......	28.	-	-	-	-	-	2.0	-	-	-
SEP. 22.......	21.	-	-	-	-	-	2.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 5, 1970	-	-	10.	22.	6.20	-	25.K	0.6	9.3
OCT. 19.......	-	-	8.	21.	6.90	-	25.K	0.7	9.8
DEC. 14.......	-	-	11.	24.	6.40	-	25.K	1.0	12.1
JAN. 11, 1971	-	-	8.	21.	6.40	-	25.K	1.6	12.4
FEB. 23.......	-	-	9.	21.	6.50	-	25.K	0.1	11.0
MAR. 22.......	-	-	20.	22.	6.70	-	25.K	0.1	10.9
APR. 12.......	-	-	19.	27.	7.40	-	25.K	1.9	9.9
APR. 27.......	-	-	9.	28.	6.80	-	25.K	2.2	8.9
MAY 10.......	-	-	11.	23.	6.30	-	45.	2.0	8.6
JUNE 8.......	14.	6.0	12.	-	6.30	15.	-	0.7	7.8
JUNE 23.......	-	-	12.	34.	7.00	-	25.K	-	6.3
JULY 27.......	-	-	11.	-	7.50	-	25.K	0.7	7.7
AUG. 9.......	-	-	6.	34.	7.30	-	25.K	0.8	6.2
AUG. 18.......	-	-	6.	29.	6.20	-	25.K	0.9	8.7
SEP. 22.......	-	-	9.	-	6.60	-	25.K	1.1	9.1

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCB MF/100ML
JUNE 8, 1971	1300.	190.	77.

K Less than.

07340000 LITTLE RIVER NEAR HORATIO, ARK.

LOCATION.--Lat 33°55'10", long 94°23'15", in NE¼ sec.10, T.10 S., R.32 W., Sevier County, at gaging station, near left bank on downstream side of bridge on State Highway 41, 0.9 mile downstream from Rolling Fork, 2.0 miles southwest of Horatio, 28.5 miles upstream from Cossatot River, and at mile 72.0.

DRAINAGE AREA.--2,674 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1953 to September 1959.
Chemical and biological analyses: October 1968 to September 1971.
Water temperature: October 1953 to September 1959.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 5, 1970	24.	-	-	-	-	-	6.0	-	-	-
OCT. 19......	18.	-	-	-	-	-	3.0	-	-	-
DEC. 14......	10.	-	-	-	-	-	14.0	-	-	-
JAN. 11, 1971	6.	-	-	-	-	-	6.0	-	-	-
FEB. 23......	10.	-	-	-	-	-	6.0	-	-	-
MAR. 22......	13.	-	-	-	-	-	3.0	-	-	-
APR. 12......	19.	-	-	-	-	-	12.5	-	-	-
APR. 27......	20.	-	-	-	-	-	7.0	-	-	-
MAY 10......	20.	-	-	-	-	-	7.0	-	-	-
JUNE 8......	28.	900.	50.0K	4.8	1.90	10.0	6.0	0.20	0.100	72.
JUNE 23......	27.	-	-	-	-	-	7.0	-	-	-
JULY 27......	27.	-	-	-	-	-	16.0	-	-	-
AUG. 9......	29.	-	-	-	-	-	7.0	-	-	-
AUG. 18......	28.	-	-	-	-	-	3.5	-	-	-
SEP. 22......	22.	-	-	-	-	-	10.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 5, 1970	-	-	16.	49.	6.40	-	25.K	0.9	7.0
OCT. 19......	-	-	13.	32.	6.30	-	25.K	0.9	8.5
DEC. 14......	-	-	17.	51.	6.90	-	25.K	1.4	10.0
JAN. 11, 1971	-	-	12.	42.	6.60	-	25.K	2.1	11.9
FEB. 23......	-	-	22.	60.	6.50	-	35.	0.8	10.2
MAR. 22......	-	-	17.	40.	6.00	-	25.K	0	9.6
APR. 12......	-	-	19.	70.	6.60	-	25.K	2.5	8.5
APR. 27......	-	-	11.	35.	6.50	-	25.	3.1	8.3
MAY 10......	-	-	21.	58.	6.60	-	70.	2.4	7.1
JUNE 8......	20.	12.0	6.	-	6.30	30.	-	0.4	6.6
JUNE 23......	-	-	8.	59.	6.70	-	25.K	3.0	8.8
JULY 27......	-	-	20.	-	7.10	-	25.K	0.8	6.6
AUG. 9......	-	-	10.	60.	7.10	-	25.K	1.8	7.5
AUG. 18......	-	-	6.	53.	5.90	-	25.K	1.4	6.8
SEP. 22......	-	-	16.	-	6.40	-	25.K	0.9	7.7

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
JUNE 8, 1971	-	-	83.

K Less than.

07342800 MCKINNEY BAYOU NEAR FORT LYNN, ARK.

LOCATION.--Lat 33°03'46", long 93°50'10", in SE¼NW¼ sec.30, T.16 S., R.25 W., Miller County, at bridge on rural road 885 (Beleau road), 2.6 miles east of Fort Lynn.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 6, 1970	25.	-	-	-	-	-	157.0	-	-	-
NOV. 3......	13.	1650.	60.0	31.2	8.50	3.8	65.0	0.28	0.610	331.
DEC. 29......	9.	-	-	-	-	-	75.0	-	-	-
JAN. 12, 1971	11.	-	-	-	-	-	105.0	-	-	-
FEB. 9......	-	900.	50.0K	21.6	9.80	15.7	74.5	0.44	0.380	150.
MAR. 2......	13.	-	-	-	-	7.7	56.0	0.23	-	-
APR. 6......	14.	-	-	-	-	-	104.5	-	-	-
MAY 11......	21.	2400.	50.0K	16.0	7.90	9.5	58.0	1.60	0.470	470.
JUNE 1......	25.	-	-	-	-	-	219.0	-	-	-
AUG. 10......	27.	-	-	14.4	-	4.5	22.0	0.19	0.920	246.
AUG. 31......	28.	-	-	-	-	-	135.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
NOV. 3, 1970	113.	78.0	50.	290.	7.00	100.	90.	1.7	8.6
FEB. 9, 1971	95.	54.0	46.	277.	6.10	60.	30.	1.5	12.0
MAY 11......	73.	40.0	32.	267.	6.70	120.	270.	-	7.1
AUG. 10......	69.	36.0	54.	178.	7.90	100.	70.	1.8	6.3

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
NOV. 3, 1970	1100.	280.	270.
FEB. 9, 1971	190.	140.	73.
MAY 11......	59000.	7400.	14000.
AUG. 10......	-	-	120.

K Less than.

07344275 SULPHUR RIVER SOUTH OF TEXARKANA, ARK.

LOCATION.--Lat 33°14'32", long 93°59'58", in SE¼SE¼ sec.28, T.17 S., R.28 W., Miller County, at bridge on State Highway 237, 13.5 miles south of Texarkana.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 6, 1970	21.	-	-	-	-	-	18.0	-	-	-
NOV. 3......	14.	300.	40.0	33.6	6.10	12.3	14.5	0.10	0.138	200.
DEC. 29......	9.	-	-	-	-	-	25.0	-	-	-
JAN. 11, 1971	6.	-	-	-	-	-	50.0	-	-	-
FEB. 9......	3.	700.	50.0K	20.8	2.50	9.0	13.0	0.12	0.850	145.
MAR. 2......	11.	-	-	-	-	-	45.0	-	-	-
APR. 6......	14.	-	-	-	-	-	50.0	-	-	-
MAY 11......	20.	1800.	50.0K	16.8	7.90	12.5	22.0	0.30	0.420	317.
JUNE 1......	24.	-	-	-	-	-	40.0	-	-	-
AUG. 10......	27.	-	-	20.8	-	13.2	18.5	0.10	0.390	238.
AUG. 31......	27.	-	-	-	-	-	21.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 6, 1970	-	-	74.	179.	6.70	-	40.	1.4	7.0
NOV. 3......	109.	84.0	81.	180.	7.30	30.	45.	1.7	8.4
DEC. 29......	-	-	86.	189.	7.30	-	40.	2.3	11.0
JAN. 11, 1971	-	-	78.	192.	7.40	-	25.K	2.3	12.4
FEB. 9......	62.	52.0	54.	128.	6.10	50.	45.	0.9	10.4
MAR. 2......	-	-	72.	216.	6.80	-	110.	1.6	9.7
APR. 6......	-	-	58.	181.	7.40	-	220.	2.8	7.7
MAY 11......	75.	42.0	58.	176.	7.10	60.	200.	-	4.5
JUNE 1......	-	-	93.	370.	7.30	-	310.	2.0	3.3
AUG. 10......	65.	52.0	53.	201.	7.50	50.	80.	3.6	3.4
AUG. 31......	-	-	87.	284.	7.10	-	50.	1.0	4.4

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
NOV. 3, 1970	28000.	1800.	250.
FEB. 9, 1971	200000.	97.	7.
MAY 11......	170000.	640.	1200.
AUG. 10......	10000.	2300.	180.

K Less than.

07344290 DAYS CREEK SOUTH OF TEXARKANA, ARK.

LOCATION.--Lat 33°21'12", long 94°02'33", in SW¼NW¼ sec.19, T.16 S., R.28 W., Miller County, at bridge on Texas-Arkansas State line road, 5.2 miles south of junction of U.S. Highway 67 and State line road in Texarkana.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 5, 1970	25.	-	-	-	-	-	650.0	-	-	-
NOV. 2......	15.	50.	0	20.0	11.40	26.7	300.0	0.23	3.560	737.
DEC. 28......	11.	-	-	-	-	-	143.5	-	-	-
JAN. 11, 1971	12.	-	-	-	-	-	185.0	-	-	-
FEB. 8......	6.	-	-	18.4	7.40	26.7	136.0	0.46	2.810	380.
MAR. 1......	15.	-	-	-	-	-	125.0	-	-	-
APR. 5......	18.	-	-	-	-	-	200.0	-	-	-
MAY 10......	20.	400.	50.0K	16.8	4.30	14.2	122.0	0.80	3.250	406.
MAY 31......	26.	-	-	-	-	-	206.0	-	-	-
AUG. 9......	30.	-	-	23.2	-	21.7	206.0	0.11	4.410	522.
AUG. 31......	28.	-	-	-	-	-	520.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 5, 1970	-	-	176.	2128.	7.00	-	90.	32.0	0
NOV. 2......	97.	50.0	126.	990.	7.40	50.	50.	18.0	1.0
DEC. 28......	-	-	94.	610.	7.10	-	25.K	7.8	1.8
JAN. 11, 1971	-	-	83.	775.	6.70	-	25.K	9.4	1.0
FEB. 8......	76.	46.0	141.	540.	7.20	60.	30.	-	-
MAR. 1......	-	-	75.	472.	6.80	-	25.	8.0	1.4
APR. 5......	-	-	116.	714.	7.20	-	45.	24.0	0
MAY 10......	61.	42.0	62.	523.	7.00	60.	100.	3.6	1.5
MAY 31......	-	-	120.	1053.	6.90	-	50.	9.0L	0.3
AUG. 9......	79.	58.0	93.	935.	7.30	20.	25.K	6.0	1.8
AUG. 31......	-	-	176.	2247.	7.20	-	40.	16.0L	0.2

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
NOV. 2, 1970	12999999.	1500000.	3700.
FEB. 8, 1971	6599999.	1000000.	8600.
MAY 10......	1300000.	720000.	4000.
AUG. 9......	1000000.	52000.	280.

K Less than.
L Greater than.

07344350 RED RIVER NEAR DODDRIDGE, ARK.

LOCATION.--Lat 33°05'34", long 93°51'46", in NE¼NW¼ sec.24, T.19 S., R.27 W., Miller County, on right bank, 1,500 ft upstream from State Highway 160 ferry crossing, and 2.7 miles east of Doddridge.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 6, 1970	23.	-	-	-	-	-	15.5	-	-	-
NOV. 3......	14.	2100.	40.0	32.8	1.20	3.6	19.0	0.33	0.100	380.
DEC. 29......	9.	-	-	-	-	-	93.5	-	-	-
JAN. 12, 1971	8.	-	-	-	-	-	85.0	-	-	-
FEB. 9......	5.	100.	50.0K	40.8	10.90	28.6	66.0	0.27	0.200	302.
MAR. 2......	10.	-	-	-	-	-	24.5	-	-	-
APR. 6......	14.	-	-	-	-	-	80.0	-	-	-
MAY 11......	22.	350.	50.0K	29.6	16.80	30.1	77.0	0.20	0.270	396.
JUNE 1......	25.	-	-	-	-	-	75.0	-	-	-
AUG. 10......	29.	-	-	30.4	-	17.7	58.5	0.14	0.520	322.
AUG. 31......	29.	-	-	-	-	-	140.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 6, 1970	-	-	70.	185.	7.00	-	110.	1.5	7.2
NOV. 3......	87.	82.0	58.	138.	8.00	100.	280.	1.5	8.1
DEC. 29......	-	-	79.	510.	7.50	-	60.	2.1	11.1
JAN. 12, 1971	-	-	58.	368.	7.00	-	80.	2.3	12.0
FEB. 9......	147.	102.0	107.	363.	6.30	20.	30.	4.3	11.9
MAR. 2......	-	-	57.	200.	6.90	-	130.	1.1	9.6
APR. 6......	-	-	91.	435.	7.80	-	30.	2.1	9.6
MAY 11......	143.	74.0	100.	471.	7.70	40.	80.	1.9	7.5
JUNE 1......	-	-	98.	571.	7.60	-	35.	1.6	7.6
AUG. 10......	117.	76.0	85.	375.	8.10	40.	45.	2.4	7.1
AUG. 31......	-	-	100.	893.	7.40	-	85.	1.4	6.3

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
NOV. 3, 1970	1100.	350.	490.
FEB. 9, 1971	260.	74.	30.
MAY 11......	8000.	800.	1400.
AUG. 10......	1200.	67.	20.

K Less than.

07344380 POSTEN BAYOU NEAR WARDVIEW, LA.

LOCATION.--Lat 33°00'26", long 93°46'32", in NE¼NE¼ sec.11, T.23 N., R.14 W., Bossier Parish, at bridge on Missionary Ferry road, and 3.0 miles northeast of Wardview.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 6, 1970	21.	-	-	-	-	-	36.0	-	-	-
NOV. 3......	11.	-	-	-	-	-	35.0	-	-	-
DEC. 29......	10.	1480.	10.0	26.4	13.90	11.0	26.5	0.13	0.930	283.
JAN. 12, 1971	11.	-	-	-	-	-	25.0	-	-	-
FEB. 9......	5.	-	-	-	-	-	65.0	0.23	-	-
MAR. 2......	13.	2200.	60.0	18.4	10.00	7.7	21.0	-	0.890	324.
APR. 5......	15.	-	-	-	-	-	37.5	-	-	-
MAY 11......	20.	-	-	-	-	-	24.0	-	-	-
AUG. 10......	27.	-	-	-	-	-	16.5	-	-	-
AUG. 31......	27.	0.J	-	35.2	34.00	6.8	50.5	0.29	0.170	294.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 6, 1970	-	-	120.	294.	7.30	-	140.	3.0	3.4
DEC. 29......	123.	66.0	115.	278.	7.70	40.	60.	1.4	5.8
MAR. 2, 1971	87.	46.0	69.	174.	7.30	120.	180.	1.2	6.2
AUG. 31......	228.	88.0	209.	-	7.60	20.	240.	4.4	3.5

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
DEC. 29, 1970	850.	120.	220.
MAR. 2, 1971	550.	180.	260.
AUG. 31......	4600.	950.	290.

J Estimated.

07344400 RED RIVER NEAR HOSSTON, LA.

LOCATION.--Lat 32°53'35", long 93°49'20", in SW¼ sec.16, T.22 N., R.14 W., Caddo-Bossier Parish line, at gaging station at bridge on Louisiana State Highway 2, 1.8 miles downstream from Dry Prong Bayou, and 3.2 miles east of Hosston.

DRAINAGE AREA.--57,041 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.

PERIOD OF RECORD.--Chemical analyses: March 1957 to September 1971.
Water temperature: March 1957 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum daily, 1,020 micromhos July 9; minimum daily, 184 micromhos Nov. 8, 11.
Water temperature: Maximum 32°C July 3-7; minimum, 3°C Jan. 8.

Period of record:
Specific conductance: Maximum daily, 1,950 micromhos Aug. 15, 1964; minimum daily, 152 micromhos May 15, 1961.
Water temperature: Maximum, 34°C July 12, 13, 21, 1969; minimum, 1°C Jan. 11, 1962, Jan. 28, 1963, Dec. 24, 1964, Jan. 7, 8, 14, 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.										
08...	7800	7.2	20	32	4.1	17	2.8	108	19	21
NOV.										
05...	15600	5.5	40	22	3.2	11	2.6	78	12	13
DEC.										
16...	4670	6.3	20	57	25	98	4.3	192	46	152
JAN.										
20...	11500	7.0	50	31	6.9	38	1.6	87	37	59
APR.										
20...	6000	6.5	10	53	13	64	2.3	156	51	97
JUNE										
02...	5500	2.3	10	44	9.7	54	2.6	129	46	81
JULY										
21...	3380	1.9	10	59	16	85	3.0	172	65	134
AUG.										
12...	--	7.5	10	47	10	33	2.4	109	20	41
SEP.										
28...	2200	8.7	40	69	18	72	3.3	242	55	98

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.										
08...	.2	1.0	164	157	97	8	280	7.4	23.0	15
NOV.										
05...	.1	.3	130	108	68	4	193	7.1	13.0	30
DEC.										
16...	.2	.3	588	522	247	89	971	7.7	12.0	15
JAN.										
20...	.1	.1	240	224	106	35	421	7.4	7.0	10
APR.										
20...	.2	1.2	395	365	184	56	677	7.1	18.5	15
JUNE										
02...	.2	.3	333	304	150	44	557	7.2	27.0	20
JULY										
21...	.2	.1	513	449	214	73	843	7.4	27.0	20
AUG.										
12...	.2	.1	272	254	160	5	460	7.2	--	20
SEP.										
28...	.3	.1	474	443	245	46	823	7.0	24.0	10

07344400 RED RIVER NEAR HOSSTON, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25° C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	490	20[illegible]	564	683	494	253	420	259	511	898	439	923
2	372	292	572	654	425	258	478	307	566	678	380	882
3	411	212	600	690	408	311	521	304	524	582	408	826
4	264	197	730	758	434	387	535	300	445	528	385	799
5	265	190	843	760	578	324	590	341	475	493	453	913
6	251	186	815	827	494	271	563	490	438	586	526	777
7	263	187	822	785	442	300	523	624	416	635	498	861
8	252	184	717	833	422	298	584	702	424	610	481	980
9	271	186	657	535	458	285	725	523	488	1,020	477	994
10	325	193	793	393	516	339	687	457	509	904	426	335
11	342	184	749	352	415	501	643	534	435	852	442	305
12	287	192	886	437	385	508	653	547	407	804	358	286
13	341	233	962	496	395	463	564	454	361	861	416	302
14	451	231	972	741	333	437	621	421	357	808	483	351
15	629	263	937	818	243	303	641	344	355	807	497	371
16	227	292	976	787	253	220	981	265	379	905	425	445
17	269	273	984	648	269	200	902	272	367	982	335	583
18	213	278	799	612	328	200	826	245	408	903	348	602
19	228	403	748	522	330	205	757	274	663	889	653	587
20	247	391	655	430	347	289	692	351	674	940	1,010	615
21	278	501	623	376	--	297	637	311	574	846	953	751
22	288	430	581	301	--	263	567	301	522	676	873	748
23	270	364	524	265	--	227	417	336	538	768	--	723
24	265	326	500	275	--	219	395	329	578	848	588	544
25	319	334	500	324	--	253	441	327	863	855	404	750
26	331	619	718	307	--	267	293	351	868	841	543	847
27	304	689	808	348	--	272	264	359	595	771	686	824
28	317	671	675	440	--	294	274	569	588	665	765	816
29	262	660	759	471	--	327	287	662	695	651	795	--
30	282	583	751	700	--	388	269	460	658	636	860	--
31	230	--	678	746	--	395	--	465	--	504	959	--
AVERAGE	307	320	737	558	--	308	558	402	522	766	562	669

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	15	12	8	10	13	17	21	26	31	24	29
2	21	15	11	8	10	13	16	21	26	e31	24	29
3	21	14	11	8	11	11	16	21	26	32	24	29
4	21	13	10	8	e10	9	17	21	27	32	23	29
5	21	13	10	6	9	10	16	21	27	32	23	29
6	21	13	10	4	9	10	15	21	27	32	24	29
7	19	13	9	e4	10	10	16	22	27	32	25	29
8	18	14	9	3	9	9	17	22	28	31	25	e29
9	18	14	10	4	8	10	17	22	28	31	26	29
10	18	14	10	4	8	11	e17	22	28	31	26	29
11	18	14	9	5	8	11	18	21	28	31	27	e29
12	18	14	9	5	7	11	18	21	27	31	27	29
13	17	e14	9	5	7	12	19	21	27	31	27	29
14	17	14	9	5	7	13	18	21	29	31	27	29
15	17	12	9	5	7	13	18	21	29	31	29	28
16	17	12	9	5	8	12	21	21	29	31	29	28
17	16	11	e9	5	9	12	19	21	29	31	30	28
18	16	11	9	5	11	e12	20	21	29	31	30	28
19	16	12	9	4	e11	13	20	22	29	31	29	27
20	16	12	9	4	e11	10	20	22	29	31	29	e25
21	15	12	9	4	11	10	20	22	29	30	29	23
22	15	12	9	7	10	14	21	22	29	29	29	21
23	16	12	9	7	10	11	21	22	28	29	29	e21
24	16	10	9	8	10	12	22	23	29	27	29	e21
25	16	9	8	10	11	10	21	23	29	26	29	21
26	15	11	8	11	12	13	21	24	29	26	30	e21
27	16	11	8	9	12	13	22	24	29	25	31	e21
28	15	11	8	9	12	13	22	24	31	25	31	e21
29	15	11	8	11	--	14	22	25	31	24	31	e21
30	15	11	8	13	--	16	20	25	31	25	30	e21
31	15	--	8	11	--	17	--	25	--	25	30	e21
AVERAGE	17	12	9	7	9	12	19	22	28	30	28	26

e Estimated

07346410 STATE LINE CREEK NEAR RODESSA, LA.

LOCATION.--Lat 32°59'40", long 94°00'28", in NE¼NW¼ sec.15, T.23 N., R.16 W., Caddo Parish, La., at bridge on Louisiana State Highway 1, 2.0 miles northwest of Rodessa.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 6, 1970	21.	-	-	-	-	-	23.5	-	-	-
NOV. 3......	10.	1250.	30.0	10.4	5.80	1.K	40.0	0.16	0.210	168.
DEC. 29......	9.	-	-	-	-	-	60.0	-	-	-
JAN. 12, 1971	7.	-	-	-	-	-	40.0	-	-	-
FEB. 9......	5.	1400.	50.0K	4.8	2.00	6.7	26.0	0.19	0.160	112.
MAR. 2......	13.	-	-	-	-	-	27.0	-	-	-
APR. 6......	11.	-	-	-	-	-	32.5	-	-	-
MAY 11......	19.	1800.	50.0K	5.6	3.40	1.K	35.0	0.35	0.170	190.
JUNE 1......	21.	-	-	-	-	-	21.0	-	-	-
AUG. 10......	27.	-	-	4.0	-	1.K	14.5	0.31	0.320	119.
AUG. 31......	25.	-	-	-	-	-	16.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
NOV. 3, 1970	50.	24.0	11.	116.	6.00	100.	25.K	1.6	5.6
FEB. 9, 1971	20.	12.0	7.	95.	5.90	100.	25.	2.0	11.6
MAR. 2......	-	-	8.	112.	6.20	-	25.K	0.6	7.5
MAY 11......	29.	14.0	6.	124.	5.80	120.	50.	2.3	5.3
JUNE 1......	-	-	23.	132.	6.60	-	30.	1.2	1.8
AUG. 10......	20.	10.0	14.	72.	6.90	120.	25.K	0.8	5.2
AUG. 31......	-	-	19.	108.	6.50	-	25.K	3.9	3.0

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
NOV. 3, 1970	3400.	410.	67.
FEB. 9, 1971	360.	230.	280.
MAY 11......	28000.	1500.	1900.
AUG. 10......	5300.	4000.	210.

K Less than.

RED RIVER BASIN

07346950 KELLY BAYOU NEAR IDA, LA.

LOCATION.--Lat 33°00'12", long 93°51'46", in SW¼NE¼ sec.12, T.23 N., R.15 W., Caddo Parish, La., at bridge on Louisiana State Highway 168, 1.2 miles south of Arkansas-Louisiana State line, 1.7 miles east of Ida.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01049 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 5, 1970	22.	-	-	-	-	-	54.5	-	-	-
NOV. 3......	10.	1790.	130.0	23.2	1.00	1.K	100.0	0.08	0.350	263.
DEC. 29......	9.	-	-	-	-	-	75.0	-	-	-
JAN. 12, 1971	10.	-	-	-	-	-	60.0	-	-	-
FEB. 9......	3.	1600.	50.0K	7.2	3.90	2.8	44.0	0.23	0.200	132.
MAR. 2......	13.	-	-	-	-	-	37.5	-	-	-
APR. 6......	11.	-	-	-	-	-	44.5	-	-	-
MAY 11......	18.	2200.	90.0K	6.4	3.40	1.K	31.0	0.50	0.270	221.
JUNE 1......	24.	-	-	-	-	-	10.0	-	-	-
AUG. 10......	28.	-	-	8.0	-	1.K	28.5	0.10	0.280	159.
AUG. 31......	24.	-	-	-	-	-	94.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
NOV. 3, 1970	62.	58.0	11.	238.	6.40	30.	25.K	0.9	6.6
FEB. 9, 1971	34.	18.0	9.	122.	5.90	60.	25.K	1.9	11.9
MAY 11......	30.	16.0	13.	124.	6.30	120.	90.	1.5	6.5
AUG. 10......	34.	20.0	20.	132.	7.00	70.	25.	0.9	4.5

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
NOV. 3, 1970	4800.	450.	320.
FEB. 9, 1971	260.	120.	99.
AUG. 10......	1500.	87.	120.

K Less than.

07348680 CROOKED CREEK AT ARKANSAS-LOUISIANA STATE LINE

LOCATION.--Lat 33°01'06", long 93°25'20", in SE¼SE¼ sec.7, T.20 S., R.22 W., Columbia County, at bridge on county road 200 ft north of Arkansas-Louisiana State line, and 2.6 miles east of Welcome, Ark.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 6, 1970	23.	150.	375.0	74.4	18.90	9.0	900.0	0.70	0.150	1590.
NOV. 3......	11.	-	-	-	-	-	215.0	-	-	-
DEC. 29......	10.	-	-	-	-	-	245.0	-	-	-
JAN. 12, 1971	10.	1450.	100.0	152.0	5.80	20.8	104.5	0.20	-	204.
FEB. 9......	4.	-	-	-	-	-	259.0	-	-	-
MAR. 2......	13.	-	-	-	-	-	109.5	-	-	-
APR. 6......	11.	960.	0	16.8	8.40	3.3	122.5	0.21	0.350	336.
MAY 11......	25.	-	-	-	-	-	31.0	-	-	-
JUNE 1......	28.	-	-	-	-	-	452.0	-	-	-
AUG. 10......	27.	-	-	-	-	-	15.0	-	-	-
AUG. 31......	24.	-	-	-	-	-	2550.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH SU	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 6, 1970	264.	186.0	12.	2174.	5.70	5.	25.K	0.9	6.3
NOV. 3......	-	-	29.	549.	6.50	-	25.K	1.4	5.9
DEC. 29......	-	-	22.	680.	6.60	-	25.K	1.5	8.2
JAN. 12, 1971	67.	38.0	23.	308.	6.70	80.	25.K	1.5	8.5
FEB. 9......	-	-	43.	819.	6.40	-	25.K	1.2	11.8
MAR. 2......	-	-	21.	346.	6.70	-	25.K	1.9	7.9
APR. 6......	77.	42.0	35.	415.	7.40	80.	30.	3.4	8.6
MAY 11......	-	-	27.	157.	6.60	-	40.	4.5	5.1
JUNE 1......	-	-	29.	1429.	6.80	-	35.	1.2	3.8
AUG. 10......	-	-	17.	89.	6.70	-	25.	5.6	3.9
AUG. 31......	-	-	19.	4167.	6.20	-	25.K	1.8	6.1

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 6, 1970	40000.	510.	480.
JAN. 12, 1971	660.	160.	160.
APR. 6......	350.	290.	67.

K Less than.

07348700 BAYOU DORCHEAT NEAR SPRINGHILL, LA.

LOCATION.--Lat 32°59'40", long 93°23'45", in NE¼NE¼ sec.16, T.23 N., R.10 W., Webster Parish, at gaging station near left bank on downstream side of bridge on Louisiana State Highway 157, 0.4 mile downstream from Crooked Creek, 1.7 miles downstream from Arkansas-Louisiana State line, and 2.8 miles southeast of Springhill city limits.

DRAINAGE AREA.--605 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1948, October 1961 to September 1962, October 1967 to September 1971 (1968-71 includes biological).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT. 13...	21	9.7	0	38	7.8	180	4.7	22	5.8	346
NOV. 18...	340	10	0	22	4.4	78	4.3	11	9.6	158
DEC. 15...	40	14	60	31	6.5	135	4.3	18	4.2	272
JAN. 20...	90	14	10	29	5.7	115	2.1	13	7.8	228
MAR. 04...	288	11	30	16	2.7	58	2.0	11	7.6	110
APR. 21...	163	8.6	0	18	4.9	65	2.1	30	5.2	127
JUNE 03...	25	15	10	16	3.9	51	1.8	27	4.4	100
SEP. 28...	51	13	80	20	7.8	50	2.4	45	7.2	104

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 13...	.2	.2	--	603	127	109	1210	6.7	18.0	15
NOV. 18...	.1	.3	--	292	73	64	571	6.9	8.0	20
DEC. 15...	.1	.2	--	476	106	89	933	6.8	14.0	15
JAN. 20...	.1	.0	491	408	96	85	808	6.2	5.0	10
MAR. 04...	.2	.2	226	213	51	42	417	6.2	10.0	20
APR. 21...	.1	.3	308	266	65	40	493	6.2	17.7	20
JUNE 03...	.1	.9	262	206	56	34	395	6.3	24.2	20
SEP. 28...	.2	.4	279	227	82	45	443	6.3	22.0	20

07348700 BAYOU DORCHEAT NEAR SPRINGHILL, LA.--Continued

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971[a]

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 6, 1970	21.	200.	1800.0	48.0	11.90	6.0	435.0	0.15	0.220	1014.
NOV. 3......	11.	-	-	-	-	-	230.0	-	-	-
DEC. 29......	9.	-	-	-	-	-	215.0	-	-	-
JAN. 12, 1971	8.	410.	270.0	25.6	9.00	5.6	220.0	0.10	0.410	508.
FEB. 9......	5.	-	-	-	-	-	178.5	-	-	-
MAR. 2......	13.	-	-	-	-	-	265.0	-	-	-
APR. 6......	14.	610.	0	16.0	5.90	3.0	123.5	0.10	0.280	299.
MAY 11......	25.	-	-	-	-	-	147.0	-	-	-
JUNE 1......	24.	-	-	-	-	-	108.0	-	-	-
AUG. 10......	26.	-	-	-	-	-	99.0	-	-	-
AUG. 31......	25.	-	-	-	-	-	125.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 6, 1970	169.	120.0	98.	1342.	9.10	20.	25.K	1.1	6.1
NOV. 3......	-	-	24.	637.	7.10	-	25.K	1.1	7.9
DEC. 29......	-	-	11.	617.	6.60	-	25.K	1.2	9.6
JAN. 12, 1971	101.	64.0	11.	714.	6.30	20.	25.K	5.1	10.2
FEB. 9......	-	-	13.	526.	5.90	-	25.K	1.0	11.3
MAR. 2......	-	-	8.	332.	5.30	-	25.K	2.5	4.9
APR. 6......	64.	40.0	17.	388.	6.80	40.	25.K	1.1	8.1
MAY 11......	-	-	12.	487.	6.30	-	25.K	1.3	5.7
JUNE 1......	-	-	20.	455.	6.90	-	25.K	0.6	4.3
AUG. 10......	-	-	12.	362.	6.40	-	25.K	1.6	4.9
AUG. 31......	-	-	43.	565.	6.80	-	25.K	1.3	3.8

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 6, 1970	180.	120.	170.
JAN. 12, 1971	700.	83.	30.
APR. 6......	430.	430.L	37.
JULY 31......	1400.	820.	33.

a Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.
K Less than.
L Greater than.

07348705 CYPRESS CREEK AT ARKANSAS-LOUISIANA STATE LINE

LOCATION.--Lat 33°01'02", long 93°19'19", in NE¼NW¼ sec.5, T.23 N., R.9 W., Webster Parish, at bridge on Louisiana State Highway 159, 200 ft south of Arkansas-Louisiana State line, and 5.0 miles north of Shongaloo, La.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 6, 1970	20.	5200.	600.0	9.6	5.80	-	32.5	0.42	0.210	200.
NOV. 3......	12.	-	-	-	-	-	19.0	-	-	-
DEC. 29......	10.	-	-	-	-	-	115.0	-	-	-
JAN. 12, 1971	10.	950.	300.0	13.6	5.30	5.2	115.0	0.13	0.120	288.
FEB. 9......	4.	-	-	-	-	-	102.5	-	-	-
MAR. 2......	13.	-	-	-	-	-	120.0	-	-	-
APR. 6......	12.	1060.	400.0	8.8	6.90	5.6	109.5	0.22	0.070	283.
MAY 11......	20.	-	-	-	-	-	175.0	-	-	-
JUNE 1......	22.	-	-	-	-	-	82.0	-	-	-
AUG. 10......	25.	-	-	-	-	-	40.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 6, 1970	48.	24.0	39.	200.	6.10	300.	25.K	3.2	1.7
NOV. 3......	-	-	33.	117.	6.70	-	25.K	6.4	1.9
DEC. 29......	-	-	18.	372.	6.60	-	60.	2.6	7.8
JAN. 12, 1971	56.	34.0	8.	380.	6.00	60.	25.K	1.7	8.7
FEB. 9......	-	-	8.	298.	5.80	-	25.K	0.9	10.5
MAR. 2......	-	-	5.	613.	5.10	-	25.K	0.5	7.7
APR. 6......	50.	32.0	9.	338.	6.20	60.	25.K	0.9	8.1
MAY 11......	-	-	5.	561.	5.70	-	25.	1.9	8.2
JUNE 1......	-	-	15.	339.	6.30	-	30.	1.4	3.0
AUG. 10......	-	-	19.	156.	6.60	-	25.K	5.7	9.5

DATE	31501 COLIFORM IMMEDNDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STRCOCCI M-ENTCCS MF/100ML
OCT. 6, 1970	2000.	80.	37.
JAN. 12, 1971	900.	440.	280.
APR. 6......	110.	71.	53.

K Less than.

07349445 BODCAU CREEK NEAR TAYLOR, ARK.

LOCATION.--Lat 33°02'41", long 93°31'14", in SW¼SW¼ sec.32, T.19 S., R.23 W., Lafayette County, at bridge on State Highway 160, 0.4 miles south of Lake Erling Dam, and 4.4 miles southwest of Taylor.

PERIOD OF RECORD.--Chemical analyses: May 1950 to October 1952.
Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGANESE MN UG/L	00915 CALCIUM CA MG/L	00925 MAGNESIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 6, 1970	23.	-	-	-	-	-	22.5	-	-	-
NOV. 3......	16.	-	-	-	-	-	26.0	-	-	-
DEC. 29......	11.	470.	430.0	6.4	2.92	3.0	30.5	0	0.250	116.
JAN. 12, 1971	11.	-	-	-	-	-	45.0	-	-	-
FEB. 9......	6.	-	-	-	-	-	78.0	-	-	-
MAR. 2......	13.	1110.	702.3	9.6	3.30	3.0	71.5	4.48	0.492	248.
APR. 6......	15.	-	-	-	-	-	39.0	-	-	-
MAY 11......	24.	-	-	-	-	-	44.0	-	-	-
JUNE 1......	25.	550.	530.0	10.4	3.40	2.0	42.0	0.30	0.370	114.
AUG. 10......	27.	-	-	-	-	-	47.5	-	-	-
AUG. 31......	29.	300.	53.58	10.4	4.02	2.0	45.8	0.11	0.200	108.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH SU	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 6, 1970	-	-	20.	102.	6.10	-	25.K	1.1	7.5
NOV. 3......	-	-	16.	92.	7.60	-	25.K	0.9	9.7
DEC. 29......	28.	16.0	8.	115.	6.40	12.	25.K	1.5	10.7
FEB. 9, 1971	-	-	8.	271.	3.80	-	25.K	1.6	10.7
MAR. 2......	44.	22.0	6.	209.	6.00	40.	25.K	2.3	9.1
MAY 11......	-	-	25.	198.	6.70	-	25.K	1.4	7.7
JUNE 1......	42.	26.0	19.	196.	6.60	45.	40.	1.3	7.6
AUG. 10......	-	-	50.	247.	7.40	-	25.K	3.2	1.8
AUG. 31......	46.	26.0	30.	-	6.50	30.	25.K	1.7	6.7

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
DEC. 29, 1970	350.	20.	600.
MAR. 2, 1971	7.	4.K	4.K
JUNE 1......	2800.	1200.	110.
AUG. 31......	3800.	200.	10.

K Less than.

07349450 BODCAU BAYOU NEAR SPRINGHILL, LA.

LOCATION.--Lat 33°00'15", long 93°30'56", in NE¼ sec.8, T.23 N., R.11 W., Bossier-Webster Parish line, at bridge on Louisiana State Highway 157, 0.8 mile upstream from Teague Branch, and 2.9 miles west of water tower at Springhill.

DRAINAGE AREA.--415 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1968-70 (partial-record station); October 1970 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.										
13...	140	7.4	10	6.9	1.4	13	1.1	20	5.0	22
NOV.										
18...	360	4.4	20	5.0	1.3	13	1.0	16	3.4	23
DEC.										
15...	340	4.9	20	5.8	1.3	14	1.0	14	3.2	26
JAN.										
20...	290	1.7	0	9.6	2.4	32	1.4	6	2.4	69
MAR.										
19...	380	6.2	20	7.5	2.7	24	1.4	16	11	43
APR.										
21...	60	9.9	10	8.7	3.5	26	1.2	24	8.4	44
JUNE										
03...	180	7.3	10	9.8	2.8	23	1.6	27	5.0	43
JULY										
28...	166	7.1	20	12	4.6	26	1.8	32	4.4	52
AUG.										
25...	100	8.6	20	11	2.0	24	1.7	29	3.6	46
SEP.										
28...	129	9.5	90	12	4.9	25	1.5	37	3.4	50

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.										
13...	.1	.2	77	67	23	7	128	6.4	19.0	10
NOV.										
18...	.1	.1	77	60	20	7	113	6.4	11.0	15
DEC.										
15...	.1	.1	76	63	20	9	123	6.1	14.0	10
JAN.										
20...	.1	.1	152	122	34	29	265	6.1	6.0	10
MAR.										
19...	.1	.3	114	104	30	17	200	6.5	15.0	15
APR.										
21...	.1	.5	127	110	36	16	220	6.5	17.2	10
JUNE										
03...	.2	1.1	141	107	36	14	194	6.4	24.2	10
JULY										
28...	.1	.2	150	124	48	22	248	6.6	27.2	20
AUG.										
25...	.2	.4	142	112	39	15	223	6.7	26.0	15
SEP.										
28...	.1	.3	159	125	50	20	227	6.3	24.2	15

07349453 WHEELER CREEK NEAR ARKANA, ARK.

LOCATION.--Lat 33°01'47", long 93°38'36", in SW¼NW¼ sec.7, T.20 S., R.24 W., Lafayette County, at bridge on county road, 0.7 mile north of Arkansas-Louisiana State line, and 1.9 miles east of Arkana.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 6, 1970	20.	-	-	-	-	-	9.0	-	-	-
NOV. 3......	12.	-	-	-	-	-	10.0	-	-	-
DEC. 29......	9.	1640.	0	5.6	3.90	1.6	12.5	0.27	0.300	168.
JAN. 12, 1971	11.	-	-	-	-	-	15.0	-	-	-
FEB. 9......	3.	-	-	-	-	-	35.0	-	-	-
MAR. 2......	14.	1500.	10.0	6.4	3.90	1.K	6.5	0.29	0.260	197.
APR. 6......	12.	-	-	-	-	-	10.5	-	-	-
MAY 11......	19.	-	-	-	-	-	6.0	-	-	-
JUNE 1......	22.	1600.	100.0	10.4	3.90	1.0	5.0	0.20	0.170	222.
AUG. 10......	25.	-	-	-	-	-	5.5	-	-	-
AUG. 31......	24.	1300.	100.0	11.2	6.20	1.K	3.5	0.42	0.820	139.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 6, 1970	-	-	37.	77.	6.50	-	25.K	1.4	1.1
DEC. 29......	30.	14.0	22.	82.	6.40	140.	25.K	1.7	4.7
MAR. 2, 1971	32.	16.0	22.	66.	6.50	200.	35.	3.7	7.6
JUNE 1......	42.	26.0	32.	100.	6.60	120.	150.	3.2	1.4
AUG. 31......	54.	28.0	49.	-	6.40	40.	35.	6.0	0.4

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
DEC. 29, 1970	680.	20.	330.
MAR. 2, 1971	160.	24.	150.
JUNE 1......	33.L	33.	250.
AUG. 31......	11000.	53.	160.

07349457 DOOLEY CREEK NEAR ARKANSAS-LOUISIANA STATE LINE

LOCATION.--Lat 33°01'35", long 93°34'45", in SW¼NE¼ sec.10, T.20 S., R.24 W., Lafayette County, at bridge on county road 0.6 mile north of Arkansas-Louisiana State line, and 5.5 miles east of Arkana.

PERIOD OF RECORD.--Chemical and biological analyses: October 1968 to September 1971.

REMARKS.-- Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
DEC. 29, 1970	10.	2370.	100.0	4.8	3.90	1.K	24.0	0.28	0.240	-
JAN. 12, 1971	12.	-	-	-	-	-	20.0	-	-	-
FEB. 9......	3.	-	-	-	-	-	54.0	-	-	-
MAR. 2......	13.	1500.	10.0	4.8	4.90	1.5	12.5	0.28	0.180	190.
APR. 6......	10.	-	-	-	-	-	32.5	-	-	-
MAY 11......	19.	-	-	-	-	-	15.0	-	-	-
AUG. 10......	25.	-	-	-	-	-	35.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
DEC. 29, 1970	28.	12.0	16.	100.	6.50	160.	50.	2.4	7.3
FEB. 9, 1971	-	-	36.	188.	6.10	-	800.	2.8	10.8
MAR. 2......	32.	12.0	11.	70.	6.20	160.	35.	0.7	7.3
MAY 11......	-	-	11.	89.	6.20	-	50.	2.9	6.0
AUG. 10......	-	-	21.	151.	6.90	-	25.K	0.6	2.9

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI K-ENTCCS MF/100ML
DEC. 29, 1970	1200.	600.	4000.
MAR. 2, 1971	410.	87.	50.

K Less than.

07356150 OUACHITA RIVER NEAR WASHITA, ARK.

LOCATION.--Lat 34°37'32", long 93°32'49", in SE¼NE¼ sec.27, T.1 S., R.24 W., Montgomery County, at bridge on State Highway 27, and 2.0 miles south of Washita.

DRAINAGE AREA.--581 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	DEPTH (FT)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.							
08...	.0	1645	23.0	54	7.1	7.8	90
08...	15	1650	21.0	106	6.6	6.2	69
08...	30	1655	20.0	114	6.6	6.2	67
NOV.							
19...	.0	1430	10.5	44	6.8	10.2	91
19...	20	1435	8.0	46	6.9	12.0	101
19...	40	1440	8.0	45	6.9	11.4	96
DEC.							
29...	.0	1540	9.5	44	6.9	9.8	85
29...	15	1545	7.0	43	6.9	10.4	86
29...	35	1550	5.5	43	6.9	9.9	78
FEB.							
01...	.0	1405	7.0	43	7.0	11.0	91
01...	15	1410	7.0	43	7.0	11.0	91
01...	30	1415	6.0	44	7.0	10.8	87
MAR.							
10...	.0	1700	10.0	39	7.1	10.6	94
10...	16	1705	8.0	39	7.1	10.8	91
10...	32	1710	7.0	40	7.0	8.5	70
APR.							
06...	.0	1730	12.5	47	7.1	10.8	101
06...	15	1735	12.0	46	7.3	9.1	84
06...	30	1740	11.0	43	7.2	8.4	76
MAY							
07...	.0	1030	20.5	48	7.6	8.1	90
07...	18	1040	18.5	49	7.1	5.8	61
07...	23	1045	17.0	48	7.0	2.7	28
07...	35	1050	14.5	52	6.7	1.0	10
JUNE							
03...	.0	1515	27.0	48	7.4	8.2	102
03...	16	1520	23.0	50	6.8	4.6	53
03...	31	1525	17.5	59	6.6	.3	3
JULY							
29...	.0	1540	29.0	64	7.6	--	--
29...	17	1545	27.0	62	7.2	--	--
29...	33	1550	17.5	93	6.2	--	--
AUG.							
25...	.0	0930	29.0	60	7.7	7.4	95
25...	15	0940	28.0	63	7.2	6.4	81
25...	20	0950	25.5	--	--	2.4	29
25...	30	1000	19.0	115	6.3	1.8	19
SEP.							
28...	.0	1400	24.0	61	6.9	7.5	88
28...	15	1405	23.0	67	6.7	5.7	66
28...	30	1410	22.5	88	6.9	4.4	49

07356320 IRONS FORK NEAR FANNIE, ARK.
(Formerly published as Irons Fork Creek near Fannie)

LOCATION.--Lat 34°41'27", long 93°24'44", in NE¼SE¼ sec.35, T.1 N., R.23 W., Montgomery County, at bridge on State Highway 298, and 2.2 miles east of Fannie.

DRAINAGE AREA.--72.2 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.					
08...	20.5	33	6.8	6.0	67
NOV.					
19...	9.0	26	6.6	12.0	103
DEC.					
29...	6.5	27	6.8	10.4	85
FEB.					
01...	7.0	28	6.8	12.0	99
MAR.					
10...	9.0	25	6.8	10.6	91
APR.					
06...	12.0	28	7.3	10.2	94
JUNE					
03...	27.0	32	6.9	7.0	88
JULY					
29...	30.5	36	6.9	--	--
AUG.					
25...	25.5	33	6.8	6.5	78
SEP.					
28...	27.0	41	6.9	7.4	92

07356500 SOUTH FORK OUACHITA RIVER AT MOUNT IDA, ARK.

LOCATION.--Lat 34°33'36", long 93°38'16", in NE¼NE¼ sec.23, T.2 S., R.25 W., Montgomery County, at gaging station near right bank on downstream side of bridge on U.S. Highway 270 at Mount Ida, 3.4 miles upstream from Williams Creek, and at mile 22.5.

DRAINAGE AREA.--64 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.					
08...	16.0	156	7.6	8.8	89
NOV.					
19...	10.0	143	6.8	10.7	95
DEC.					
29...	7.5	143	7.4	9.6	80
FEB.					
01...	7.0	168	7.8	12.0	99
MAR.					
10...	10.0	144	7.8	11.7	104
APR.					
06...	12.0	173	7.9	10.6	98
MAY					
07...	19.0	180	7.4	7.5	80
JUNE					
03...	23.0	190	7.7	7.2	83
JULY					
29...	25.0	190	7.5	--	--
AUG.					
25...	25.0	174	7.5	8.6	104
SEP.					
28...	24.0	190	7.5	9.4	110

07357500 LAKE OUACHITA NEAR HOT SPRINGS, ARK.

LOCATION.--Lat 34°34'20", long 93°11'50", in NW¼ sec.12, T.2 S., R.21 W., Garland County, at Blakely Mountain Dam on Ouachita River, 3.0 miles upstream from Glazypeau Creek, 3.8 miles downstream from Mill Creek, 10 miles northwest of Hot Springs, and at mile 487.0.

DRAINAGE AREA.--1,105 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.
Water temperature: May 1965 to September 1971.

CHEMICAL ANALYSES AND WATER TEMPERATURE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	DEPTH (FT)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.							
08...	.0	1130	23.0	53	7.4	7.6	87
08...	9.0	1135	23.0	--	--	9.0	103
08...	12	1140	23.0	53	7.3	8.6	99
08...	14	1150	23.0	51	7.4	7.5	86
08...	16	1200	22.5	51	7.4	7.5	85
08...	17	1205	22.5	51	7.3	6.3	72
08...	18	1210	22.0	51	7.1	3.9	44
08...	20	1220	21.0	52	6.9	2.3	26
08...	22	1230	20.5	51	6.8	1.4	16
08...	25	1240	20.0	51	7.0	.7	18
08...	30	1250	17.0	51	6.7	.6	6
08...	35	1300	16.0	51	6.8	1.1	11
08...	40	1305	14.5	51	6.7	1.8	17
08...	45	1310	13.0	--	--	2.8	26
08...	50	1320	12.0	--	--	2.9	27
08...	60	1325	10.0	52	6.8	3.0	26
08...	80	1330	8.5	52	6.9	3.1	26
08...	100	1335	7.5	55	6.8	2.7	22
08...	110	1340	7.0	53	6.8	2.5	21
08...	140	1345	7.0	55	6.8	2.5	21
08...	155	1350	7.0	56	6.8	2.6	21
08...	170	1355	7.0	55	6.8	2.8	23
NOV.							
19...	.0	1045	13.5	51	7.1	9.2	88
19...	10	1050	13.5	51	7.1	9.4	90
19...	20	1055	13.5	51	7.2	9.2	88
19...	30	1100	13.5	51	7.2	9.0	86
19...	40	1110	13.0	51	7.1	8.2	77
19...	50	1120	13.0	51	7.0	8.5	80
19...	54	1130	11.5	51	7.1	3.1	28
19...	60	1140	10.5	51	6.9	3.7	33
19...	70	1145	9.0	51	6.9	3.8	33
19...	80	1150	8.0	51	6.8	4.3	36
19...	90	1200	8.0	52	6.8	4.3	36
19...	100	1210	7.5	52	6.7	4.6	38
19...	120	1225	7.0	53	6.6	4.1	34
19...	130	1230	6.5	54	6.6	3.7	30
19...	140	1240	6.5	54	6.6	3.6	30
19...	150	1245	6.5	54	6.6	3.6	30
19...	165	1250	6.5	54	6.7	3.4	28
19...	175	1255	6.5	54	6.6	3.3	27
19...	185	1300	6.5	55	6.6	3.3	27
DEC.							
29...	.0	1200	11.0	52	7.0	9.4	85
29...	10	1205	10.0	52	7.0	9.8	87
29...	20	1210	10.0	52	7.0	9.7	86
29...	30	1215	10.0	51	7.0	9.5	84
29...	40	1230	10.0	51	7.0	8.8	78
29...	50	1235	10.0	51	7.0	8.3	73
29...	60	1240	10.0	51	7.0	8.0	71
29...	70	1245	10.0	51	7.0	7.7	68
29...	75	1250	9.5	51	7.0	7.8	68
29...	77	1255	9.5	52	6.9	7.8	68
29...	79	1300	9.0	--	--	7.3	63
29...	80	1305	8.5	52	6.8	2.9	24
29...	85	1310	8.0	53	6.6	2.8	24
29...	90	1315	7.5	53	6.6	2.9	24
29...	100	1320	7.0	53	6.6	3.0	25
29...	110	1325	7.0	54	6.6	2.9	24
29...	120	1330	7.0	54	6.6	2.8	23
29...	122	1335	7.0	54	6.6	2.8	23
FEB.							
01...	.0	1040	7.5	52	7.0	9.4	78
01...	10	1045	7.5	52	7.1	10.6	83
01...	20	1050	7.5	52	7.1	10.6	83
01...	30	1055	7.5	52	7.1	9.8	82
01...	40	1100	7.5	53	7.1	9.8	82
01...	50	1110	7.5	53	7.1	9.8	82
01...	60	1115	7.5	52	7.1	9.6	80
01...	70	1120	7.5	52	7.1	9.4	78
01...	80	1125	7.5	53	7.1	9.2	77
01...	90	1130	7.5	53	7.2	6.4	53
01...	95	1140	7.0	53	7.3	2.8	23
01...	100	1145	7.0	53	7.4	2.8	23
01...	110	1150	7.0	--	--	2.0	16
01...	120	1155	7.0	57	6.7	1.8	15
01...	130	1200	7.0	--	--	1.8	15
01...	140	1210	7.0	55	6.6	1.8	15
01...	150	1215	7.0	--	--	1.8	15

07357500 LAKE OUACHITA NEAR HOT SPRINGS, ARK.--Continued

CHEMICAL ANALYSES AND WATER TEMPERATURE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	DEPTH (FT)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
MAR.							
10...	.0	1130	9.0	52	7.0	9.9	85
10...	10	1140	8.0	52	7.0	9.6	81
10...	20	1150	8.0	53	7.2	8.0	67
10...	30	1155	7.5	53	7.2	7.2	60
10...	40	1200	7.5	52	7.3	6.3	52
10...	50	1210	7.0	52	7.3	4.7	39
10...	60	1220	7.0	52	7.3	4.2	35
10...	70	1230	7.0	52	7.3	3.7	30
10...	80	1240	7.0	52	7.2	3.3	27
10...	90	1250	7.0	52	7.2	3.1	26
10...	100	1300	7.0	53	7.2	2.9	24
10...	110	1310	7.0	53	7.1	2.7	22
10...	120	1320	7.0	53	7.1	2.7	22
10...	130	1330	6.5	53	7.0	2.7	22
10...	140	1340	6.5	53	7.0	2.6	21
10...	143	1350	6.5	53	7.0	2.6	21
APR.							
06...	.0	1110	10.5	53	7.3	11.0	98
06...	10	1120	10.5	53	7.4	11.0	98
06...	20	1130	10.5	52	7.4	11.0	98
06...	30	1140	10.0	52	7.4	10.8	96
06...	40	1150	10.0	52	7.5	10.8	96
06...	50	1200	10.0	52	7.5	10.2	90
06...	60	1210	10.0	52	7.5	9.8	87
06...	70	1215	10.0	52	7.5	9.4	83
06...	80	1220	10.0	52	7.5	8.8	78
06...	90	1230	9.5	52	7.4	8.3	72
06...	100	1240	9.0	52	7.4	7.8	67
06...	110	1250	8.5	52	7.4	7.5	64
06...	120	1255	8.0	53	7.3	7.0	59
06...	130	1300	7.5	53	7.3	6.7	56
06...	140	1310	7.0	53	7.2	6.5	54
06...	150	1320	7.0	53	7.2	6.2	51
06...	160	1330	7.0	53	7.2	5.8	48
06...	170	1335	7.0	54	7.2	5.8	48
06...	180	1340	7.0	58	7.1	5.8	48
MAY							
07...	.0	1200	20.0	52	7.5	9.2	100
07...	20	1205	17.0	52	7.4	9.6	99
07...	25	1210	15.0	52	7.4	9.9	98
07...	30	1215	13.0	52	7.4	9.9	93
07...	40	1220	10.0	52	7.3	9.9	88
07...	50	1230	9.0	52	7.3	9.7	86
07...	60	1235	9.0	52	7.3	9.6	83
07...	70	1240	9.0	52	7.2	9.6	83
07...	80	1245	9.0	52	7.2	9.5	82
07...	90	1250	9.0	52	7.2	9.3	80
07...	100	1255	8.5	52	7.1	9.0	76
07...	110	1300	7.0	53	7.1	8.5	70
07...	120	1305	7.0	53	7.1	8.3	68
07...	130	1310	7.0	53	7.1	7.7	64
07...	140	1320	7.0	53	7.1	7.5	62
07...	150	1325	7.0	54	7.1	7.4	61
07...	158	1330	7.0	54	7.0	7.1	59
JUNE							
03...	.0	1315	23.0	57	8.1	10.0	115
03...	10	1320	22.5	56	8.0	9.4	107
03...	15	1325	21.5	55	8.0	9.8	110
03...	20	1330	19.5	53	7.9	10.0	108
03...	25	1335	18.5	53	7.7	9.5	100
03...	30	1340	14.0	53	7.5	10.7	103
03...	35	1345	11.5	52	7.4	10.0	92
03...	40	1350	10.5	52	7.3	10.0	89
03...	50	1355	9.5	52	7.3	9.6	83
03...	60	1400	9.0	52	7.3	9.8	84
03...	70	1405	8.5	53	7.2	8.6	73
03...	80	1410	8.0	53	7.1	8.6	72
03...	85	1415	8.0	53	7.1	8.6	72
03...	90	1420	8.0	53	7.0	6.8	57
03...	100	1425	7.5	53	7.0	6.0	50
03...	110	1430	7.0	53	7.0	5.6	46
03...	120	1435	7.0	54	7.0	5.3	44
03...	130	1440	7.0	54	7.0	5.0	41
03...	143	1445	7.0	54	6.9	5.0	41

07357500 LAKE OUACHITA NEAR HOT SPRINGS, ARK.--Continued

CHEMICAL ANALYSES AND WATER TEMPERATURE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	DEPTH (FT)	TIME	TEMP- ERATURE (DEG C)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION
JULY							
30...	.0	1100	27.0	57	7.0	9.2	116
30...	10	1105	27.0	57	7.0	9.3	118
30...	20	1110	27.0	56	7.0	8.5	108
30...	25	1115	27.0	55	7.1	8.1	102
30...	30	1120	21.0	54	7.1	7.9	88
30...	32	1125	18.5	54	7.1	7.6	80
30...	35	1130	16.5	54	7.1	7.8	80
30...	40	1135	13.5	53	7.1	7.9	75
30...	45	1140	12.0	53	7.1	7.8	72
30...	50	1145	10.5	53	7.1	7.7	69
30...	60	1150	9.5	53	7.1	7.5	65
30...	70	1155	9.0	53	7.1	7.7	66
30...	80	1200	8.5	53	7.1	7.8	66
30...	90	1205	8.0	53	7.0	7.8	66
30...	100	1210	8.0	54	7.0	7.5	63
30...	110	1215	7.5	54	7.0	7.2	60
30...	120	1220	7.5	54	7.0	6.9	58
30...	130	1225	7.5	54	6.9	6.6	55
30...	139	1230	7.5	55	6.9	6.4	53
AUG.							
25...	.0	1230	30.0	58	7.6	8.2	108
25...	10	1235	29.0	58	7.7	8.0	102
25...	20	1240	27.0	56	7.5	7.9	98
25...	25	1245	25.0	55	7.5	7.3	88
25...	30	1250	20.0	55	7.3	7.0	76
25...	35	1255	17.0	54	7.2	6.8	70
25...	40	1300	14.0	54	7.2	7.0	67
25...	45	1305	13.0	55	7.2	6.2	58
25...	50	1310	12.0	54	7.2	6.0	56
25...	60	1315	11.0	54	7.1	5.9	54
25...	70	1320	10.0	54	7.0	5.8	51
25...	80	1325	9.0	54	7.0	5.7	49
25...	90	1330	8.5	54	7.0	5.7	48
25...	100	1335	8.0	54	7.0	5.6	47
25...	110	1340	8.0	54	7.0	5.5	46
25...	120	1345	7.5	54	7.0	5.4	45
25...	130	1350	7.5	55	7.0	5.2	43
25...	140	1355	7.5	55	7.0	4.9	41
25...	150	1400	7.5	53	7.0	4.6	38
SEP.							
28...	.0	1100	24.0	56	7.2	8.1	95
28...	10	1105	24.0	57	7.2	8.2	96
28...	20	1110	24.0	57	7.2	8.2	96
28...	25	1115	24.0	57	7.2	8.2	96
28...	28	1120	24.0	57	7.2	7.9	93
28...	30	1125	21.5	56	6.9	7.0	79
28...	40	1130	14.0	55	6.7	7.0	67
28...	50	1135	11.0	55	6.7	7.5	68
28...	60	1140	10.0	54	6.7	7.5	66
28...	80	1145	7.5	54	6.8	7.5	62
28...	100	1150	7.5	55	6.7	7.5	62
28...	110	1155	7.0	55	6.7	7.4	61
28...	120	1200	7.0	56	6.7	7.3	60
28...	140	1205	7.0	55	6.6	5.2	43
28...	160	1210	7.0	56	6.4	4.4	36
28...	168	1215	6.5	56	6.3	3.8	31

07357501 OUACHITA RIVER AT BLAKELY MOUNTAIN DAM, NEAR HOT SPRINGS, ARK.

LOCATION.--Lat 34°31'17", long 93°11'23", in NE¼ sec.12, T.2 S., R.21 W., Garland County, at gaging station in outlet of power tunnel at Blakely Mountain Dam, 2.3 miles upstream from Glazypeau Creek, 10 miles northwest of Hot Springs, and at mile 486.9.

DRAINAGE AREA.--1,105 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.					
08...	18.0	60	7.2	7.4	77
NOV.					
19...	11.5	53	6.9	7.5	69
DEC.					
29...	10.5	--	--	8.8	78
FEB.					
01...	8.0	54	7.0	7.6	64
MAR.					
10...	8.0	52	7.3	10.2	86
APR.					
06...	11.0	57	7.2	9.5	86
MAY					
07...	13.0	54	6.9	8.6	81
JUNE					
03...	10.5	57	7.2	9.1	81
JULY					
30...	25.0	64	7.1	--	--
AUG.					
25...	14.5	54	7.0	7.5	73
SEP.					
28...	19.0	61	6.8	8.5	90

ANALYSES OF ADDITIONAL SAMPLES

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
JUNE											
03...	<10	<10	<1	<1	<1	<1	<1	<1	<1	4	<.5
18...	<10	<10	<1	<1	<1	<1	<1	<1	<1	6	<.5
JULY											
02...	<10	<10	<1	<1	<1	<1	<1	<1	<1	19	<.5
15...	<10	<10	<1	<1	<1	<1	<1	<1	<1	2	<.5
30...	<10	<10	<1	<1	<1	2	<1	<1	<1	<1	<.5
AUG.											
13...	<10	<10	<1	<1	<1	3	<1	<1	4	--	<.5
25...	<10	<10	2	--	2	--	<1	<1	<1	<1	<.5

DATE	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED SOLIDS (MG/L)	PH
JUNE				
03...	10	20	0	7.2
18...	<10	10	0	7.4
JULY				
02...	<10	<10	1	7.3
15...	<10	<10	1	7.4
30...	<10	<10	20	7.3
AUG.				
13...	<10	<10	4	7.1
25...	<10	<10	2	7.1

<Less than.

07359500 OUACHITA RIVER NEAR MALVERN, ARK.

LOCATION.--Lat 34°23'10", long 92°50'20", in NW¼ sec.16, T.4 S., R.17 W., Hot Spring County, at gaging station near right bank on downstream side of bridge on State Highway 84, 2 miles northwest of Malvern, 5.8 miles downstream from Remmel Dam, and at mile 450.1.

DRAINAGE AREA.--1,562 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1946 to September 1950.
Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Additional chemical and biological analyses furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.											
09...	<10	--	10	--	<1	--	<1	--	4	--	<.5
MAR.											
11...	--	--	<1	--	--	--	--	--	--	--	--
MAY											
1-10	--	<10	--	<1	--	<1	--	<1	--	<1	--
11-20	--	<10	--	<1	--	1	--	<1	--	<1	--
21-30	--	<10	--	1	--	<1	--	4	--	1	--
31...	--	<10	--	<1	--	<1	--	1	--	2	--
JUNE											
1-10	--	<10	--	<1	--	<1	--	1	--	<1	--
4...	<10	<10	<1	<1	<1	<1	<1	<1	<1	21	<.5
11-20	--	<10	--	<1	--	<1	--	1	--	<1	--
18...	<10	<10	<1	<1	<1	<1	<1	<1	5	9	<.5
21-29	--	<10	--	<1	--	1	--	1	--	<1	--
30...	--	<10	--	<1	--	<1	--	2	--	<1	--
JULY											
1-10	--	<10	--	<1	--	1	--	<1	--	<1	--
2...	<10	<10	<1	<1	2	--	<1	<1	3	7	<.5
11-20	--	<10	--	<1	--	<1	--	<1	--	<1	--
15...	<10	<10	<1	<1	<1	1	<1	<1	<1	4	<.5
24-30	--	<10	--	<1	--	1	--	<1	--	<1	--
29...	<10	<10	<1	<1	<1	3	<1	<1	<1	<1	1.7
31...	--	<10	--	<1	--	<1	--	<1	--	<1	--
AUG.											
1-10	--	<10	--	<1	--	<1	--	1	--	<1	--
11-20	--	<10	--	<1	--	<1	--	<1	--	<1	--
13...	<10	<10	<1	<1	<1	3	<1	1	4	--	.6
21-30	--	<10	--	<1	--	<1	--	1	--	<1	--
25...	<10	<10	<1	<1	<1	<1	<1	<1	3	--	<.5
31...	--	<10	--	<1	--	<1	--	<1	--	<1	--

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED SOLIDS (MG/L)	PH
OCT.					
9...	.9	45	--	--	--
MAR.					
11...	--	--	--	--	--
MAY					
1-10	--	--	20	--	--
11-20	--	--	20	--	--
21-30	--	--	20	--	--
31...	--	--	<10	--	--
JUNE					
1-10	--	--	<10	--	--
4...	--	20	30	1	5.9
11-20	--	--	10	--	--
18...	--	<10	<10	0	6.5
21-29	--	--	10	--	--
30...	--	--	10	--	--
JULY					
1-10	--	--	10	--	--
2...	--	<10	<10	2	6.7
11-20	--	--	10	--	--
15...	--	50	--	0	7.2
24-30	--	--	10	--	--
29...	--	<10	10	4	6.4
31...	--	--	10	--	--
AUG.					
1-10	--	--	10	--	--
11-20	--	--	10	--	--
13...	--	50	--	2	4.1
21-30	--	--	10	--	--
25...	--	--	<10	1	6.6
31...	--	--	<10	--	--

< Less than.

07359500 OUACHITA RIVER NEAR MALVERN, ARK.--Continued

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 5...	23.	-	-	-	-	-	46.0	-	-	-
OCT. 19...	19.	-	-	-	-	-	40.0	-	-	-
DEC. 14...	18.	-	-	-	-	-	25.0	-	-	-
DEC. 22...	11.	-	-	-	-	-	103.5	-	-	-
JAN. 11...	9.	-	-	-	-	-	12.0	-	-	-
FEB. 23...	9.	-	-	-	-	-	12.5	-	-	-
MAR. 22...	13.	-	-	-	-	-	22.0	-	-	-
APR. 12...	18.	-	-	-	-	-	18.0	-	-	-
APR. 27...	20.	-	-	-	-	-	12.5	-	-	-
MAY 10...	20.	-	-	-	-	-	17.0	-	-	-
JUNE 8...	25.	100.K	50.0K	8.8	2.40	16.0	28.0	0.90	0.100K	93.
JUNE 23...	28.	-	-	-	-	-	38.0	-	-	-
JULY 27...	27.	-	-	-	-	-	32.0	-	-	-
AUG. 9...	27.	-	-	-	-	-	31.0	-	-	-
AUG. 18...	28.	-	-	-	-	-	35.5	-	-	-
SEP. 22...	27.	-	-	-	-	-	25.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 5...	-	-	25.	163.	7.80	-	25.K	0.6	6.3
OCT. 19...	-	-	18.	117.	6.60	-	25.K	0.7	6.1
DEC. 14...	-	-	22.	100.	6.40	-	25.K	1.1	9.2
DEC. 22...	-	-	31.	394.	6.50	-	25.K	1.8	9.8
JAN. 11...	-	-	17.	77.	6.50	-	25.K	2.0	11.4
FEB. 23...	-	-	18.	93.	6.90	-	25.K	0.6	11.2
MAR. 22...	-	-	20.	118.	6.80	-	25.K	1.6	9.9
APR. 12...	-	-	17.	114.	6.60	-	25.K	1.8	9.0
APR. 27...	-	-	15.	93.	7.10	-	25.K	2.5	7.2
MAY 10...	-	-	16.	99.	6.50	-	25.K	1.5	7.2
JUNE 8...	32.	22.0	12.	-	6.30	0	-	0.6	6.6
JUNE 23...	-	-	9.	290.	6.60	-	25.K	0.7	4.9
JULY 27...	-	-	9.	-	6.50	-	25.K	1.4	5.4
AUG. 9...	-	-	130.	100.	6.90	-	25.K	1.7	6.8
AUG. 18...	-	-	4.	180.	5.90	-	25.K	2.6	6.9
SEP. 22...	-	-	3.	-	5.40	-	25.K	1.7	7.5

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
JUNE 8...	100.	57.	40.

K Less than.

07360000 OUACHITA RIVER AT ARKADELPHIA, ARK.

LOCATION.--Lat 34°07'16", long 93°02'46", in sec.17, T.7 S., R.19 W., Clark County, at gaging station on downstream side of bridge on State Highway 7 at Arkadelphia, 5.4 miles downstream from Caddo River, and at mile 420.6.

DRAINAGE AREA.--2,311 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1948 to September 1971 (1969-70 includes biological).
Water temperature: October 1948 to September 1960, October 1961 to September 1967.

REMARKS.--Records of discharge furnished by District Office, Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)
OCT.			
30...	6660	--	100
DEC.			
10...	2980	--	110
JAN.			
08...	7500	6.0	90
FEB.			
18...	3510	10.0	140
MAR.			
19...	980	9.5	250
APR.			
29...	804	18.5	--
JUNE			
04...	2200	24.0	640
JULY			
09...	693	--	203
AUG.			
20...	732	27.0	187
SEP.			
01...	574	26.5	186
17...	542	26.0	175

ANALYSES OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE									
14...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE								
14...	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE								
14...	<.20	.30	.30	.30	.40	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)
JUNE								
14...	<.20	<1.0	<.20	<.20	<.20	<.75	<.20	<.20

< Less than.

07360250 LITTLE MISSOURI RIVER NEAR NEWHOPE, ARK.

LOCATION.--Lat 34°14'25", long 93°50'00", in NW¼NW¼ sec.13, T.6 S., R.27 W., Pike County, at bridge on U.S. Highway 70, and 2.8 miles east of Newhope.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.					
09...	16.0	56	7.5	8.8	89
NOV.					
20...	8.5	33	7.0	11.2	95
DEC.					
30...	6.5	33	6.9	11.2	92
FEB.					
04...	10.0	34	7.0	9.8	87
MAR.					
11...	8.5	31	7.0	11.4	97
APR.					
07...	12.0	37	7.3	10.1	94
MAY					
06...	21.0	36	6.7	8.6	96
JUNE					
04...	22.5	40	7.2	7.3	83
JULY					
29...	25.5	33	6.6	--	--
AUG.					
24...	29.5	44	7.0	9.8	127

07360350 SELF CREEK NEAR DAISY, ARK.

LOCATION.--Lat 34°15'49", long 93°43'40", in NE¼SE¼ sec.36, T.5 S., R.26 W., Pike County, at bridge on county road 1.6 miles north of Daisy.

DRAINAGE AREA.--204 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.					
09...	16.0	57	7.0	8.0	80
NOV.					
20...	8.0	36	6.9	11.0	92
DEC.					
30...	7.0	34	6.9	11.2	92
FEB.					
04...	10.0	34	7.0	10.0	88
MAR.					
11...	8.0	36	7.0	11.6	97
APR.					
07...	12.0	38	7.2	10.0	92
MAY					
06...	20.0	36	7.1	8.5	92
JUNE					
04...	24.0	44	7.2	7.3	86
JULY					
29...	27.0	34	6.6	--	--
AUG.					
24...	28.0	44	7.1	6.8	86

07360500 LAKE GREESON NEAR MURFREESBORO, ARK.

LOCATION.--Lat 34°08'55", long 93°42'55", in NW¼ sec.18, T.7 S., R.25 W., Pike County, at Narrows Dam on Little Missouri River, 6.5 miles northwest of Murfreesboro, 9.7 miles upstream from Muddy Fork, and at mile 105.5.

DRAINAGE AREA.--237 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.
Water temperature: May 1965 to May 1968, October 1968 to September 1971.

CHEMICAL ANALYSES AND WATER TEMPERATURE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	DEPTH (FT)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.							
09...	.0	1000	22.0	30	6.8	7.3	83
09...	10	1005	22.5	30	6.8	7.1	81
09...	12	1010	22.5	--	--	6.5	76
09...	14	1015	22.5	--	--	6.0	68
09...	20	1025	22.5	33	6.7	5.5	62
09...	30	1035	22.5	31	6.8	4.9	56
09...	33	1040	22.0	30	6.9	3.0	34
09...	36	1050	20.5	30	6.5	.6	6
09...	40	1100	17.5	30	6.5	.6	6
09...	50	1110	14.5	32	6.6	.6	6
09...	60	1115	12.5	--	--	.6	6
09...	70	1120	10.5	36	6.3	1.0	9
09...	80	1130	9.5	--	--	1.2	10
09...	90	1135	8.5	33	6.6	1.2	10
09...	100	1145	8.5	--	--	1.3	11
09...	110	1150	8.0	32	6.6	.6	5
09...	135	1155	8.5	50	6.5	.0	0
NOV.							
20...	.0	0950	13.0	31	6.8	7.6	70
20...	10	0955	13.0	31	6.8	7.6	70
20...	20	1000	13.0	31	6.8	7.1	67
20...	30	1005	13.0	31	6.8	6.7	63
20...	40	1010	12.5	31	6.8	6.6	62
20...	50	1020	12.5	31	6.7	6.0	56
20...	60	1030	12.5	32	6.7	4.9	46
20...	65	1040	12.0	34	6.5	1.5	14
20...	66	1050	10.5	34	--	.2	2
20...	68	1100	10.5	34	--	.2	2
20...	72	1105	11.0	34	6.6	.3	3
20...	77	1110	10.0	29	6.3	.2	2
20...	82	1120	9.0	34	6.3	.5	4
20...	87	1125	8.5	34	6.3	.8	7
20...	90	1130	8.0	34	6.3	1.9	16
20...	100	1135	7.5	34	6.3	2.1	18
20...	110	1140	7.0	33	6.3	.3	2
20...	120	1145	7.0	32	6.3	.1	1
20...	130	1150	7.0	--	6.6	.1	1
20...	132	1155	7.0	70	6.6	.0	0
DEC.							
30...	.0	1115	8.0	35	6.8	9.9	83
30...	10	1120	8.5	35	6.8	9.6	81
30...	20	1130	8.5	34	6.7	8.6	73
30...	30	1135	8.0	33	6.7	8.5	71
30...	40	1140	8.0	32	6.7	8.1	68
30...	50	1150	8.0	32	6.7	8.0	67
30...	60	1200	8.0	33	6.6	8.3	70
30...	70	1210	8.0	34	6.5	6.5	55
30...	76	1220	8.0	35	6.5	2.9	26
30...	80	1230	8.5	37	6.5	.9	8
30...	90	1240	7.0	38	6.4	.4	3
30...	100	1245	7.0	38	6.5	.9	7
30...	110	1250	6.5	65	6.4	.3	2
30...	120	1300	6.5	68	6.4	.3	2
30...	130	1305	6.5	--	6.5	.1	1
30...	133	1310	6.5	83	6.5	.1	1
FEB.							
05...	.0	0900	7.0	36	6.8	10.0	83
05...	10	0905	7.0	33	6.9	10.0	83
05...	20	0910	7.0	32	7.0	10.0	83
05...	30	0920	7.0	32	7.0	10.1	83
05...	40	0930	7.0	32	6.9	10.0	83
05...	50	0940	7.0	32	6.9	9.2	76
05...	60	0945	7.0	32	6.9	9.0	74
05...	70	0950	7.0	33	6.8	--	--
05...	80	0955	7.0	34	6.7	6.2	51
05...	90	1005	7.0	34	6.7	--	--
05...	100	1015	7.0	35	6.6	4.2	35
05...	110	1025	6.5	34	6.6	--	--
05...	120	1030	6.5	33	6.6	1.8	15
05...	130	1040	6.5	33	6.6	--	--
05...	136	1045	6.5	33	6.6	.8	6
MAR.							
11...	.0	0750	8.0	31	7.1	11.1	93
11...	10	0755	8.0	31	7.1	10.5	88
11...	20	0800	7.5	31	7.1	9.1	76
11...	30	0810	7.5	31	7.0	7.2	60
11...	40	0820	7.5	31	7.0	6.0	50
11...	50	0830	7.5	31	7.0	5.1	42
11...	60	0840	7.5	31	7.0	4.6	38
11...	70	0850	7.0	31	7.0	4.0	33

07360500 LAKE GREESON NEAR MURFREESBORO, ARK.--Continued

CHEMICAL ANALYSES AND WATER TEMPERATURE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	DEPTH (FT)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
MAR.							
11...	80	0900	7.0	31	7.0	3.7	30
11...	90	0910	7.0	31	7.0	3.3	27
11...	100	0920	6.5	31	6.9	3.0	24
11...	110	0930	6.0	32	6.8	2.9	23
11...	120	0940	6.0	32	6.7	2.8	22
11...	130	0950	6.0	32	6.7	2.7	22
11...	140	1000	6.0	32	6.7	2.7	22
APR.							
07...	.0	0900	11.5	30	7.4	10.2	94
07...	10	0905	11.0	30	7.4	10.2	93
07...	20	0910	11.0	30	7.4	10.2	93
07...	30	0920	11.0	30	7.4	10.1	92
07...	40	0925	11.0	30	7.3	10.0	91
07...	50	0930	10.0	30	7.2	9.8	87
07...	60	0935	9.0	30	7.1	9.6	83
07...	70	0940	8.5	31	7.0	9.3	79
07...	80	0945	8.0	31	7.0	8.8	76
07...	90	0950	7.5	31	7.0	8.2	68
07...	100	0955	7.0	31	7.0	7.8	64
07...	110	1000	7.0	31	7.0	7.5	62
07...	120	1010	7.0	31	6.9	7.0	58
07...	130	1015	7.0	32	6.8	6.4	53
07...	140	1020	7.0	32	6.7	6.0	50
MAY							
06...	.0	1400	19.0	30	7.4	9.4	100
06...	5.0	1405	18.5	30	7.3	9.1	96
06...	10	1410	18.5	30	7.2	9.7	102
06...	20	1420	18.0	30	7.2	9.0	96
06...	25	1425	17.5	30	7.2	9.3	96
06...	30	1430	14.0	30	7.2	9.7	93
06...	35	1435	12.5	30	7.1	9.1	85
06...	37	1440	12.0	30	7.0	9.0	83
06...	40	1445	11.0	30	7.0	9.6	87
06...	50	1450	10.0	30	7.0	9.2	81
06...	60	1455	9.5	30	7.0	9.0	78
06...	70	1500	9.0	31	6.9	9.0	78
06...	80	1505	8.5	31	6.8	8.7	74
06...	90	1510	8.0	31	6.8	8.7	73
06...	100	1520	7.5	31	6.8	8.1	68
06...	110	1525	7.0	31	6.7	7.0	58
06...	123	1530	7.0	32	6.6	6.0	50
JUNE							
04...	.0	0845	24.0	32	7.4	8.1	95
04...	5.0	0850	23.5	31	7.3	8.2	95
04...	10	0855	23.5	31	7.2	8.6	100
04...	15	0900	23.0	31	7.2	8.6	99
04...	20	0905	20.0	31	7.1	7.8	85
04...	25	0910	17.0	31	7.0	7.6	78
04...	30	0915	14.0	31	7.0	8.1	78
04...	35	0920	12.0	31	6.9	7.8	72
04...	40	0925	11.0	31	6.8	8.0	73
04...	50	0930	10.5	31	6.8	7.8	70
04...	60	0935	10.0	31	6.8	7.6	67
04...	70	0940	9.0	31	6.8	7.6	66
04...	80	0945	9.0	31	6.7	7.6	66
04...	90	0950	8.5	31	6.7	7.4	62
04...	100	0955	8.0	31	6.7	6.9	58
04...	110	1000	7.5	32	6.6	5.9	49
04...	120	1005	7.5	32	6.5	4.6	38
04...	130	1010	7.5	32	6.5	3.3	28
04...	141	1015	7.5	36	6.5	2.9	24
JULY							
29...	.0	1045	27.5	31	6.8	7.8	100
29...	10	1050	27.0	31	7.0	7.6	96
29...	20	1055	27.0	31	7.0	4.5	57
29...	25	1100	22.0	31	6.8	2.4	27
29...	30	1105	18.5	31	6.8	2.8	29
29...	35	1110	14.5	31	6.7	2.6	25
29...	40	1115	12.5	31	6.6	2.7	25
29...	45	1120	12.0	31	6.7	2.7	25
29...	50	1125	11.5	31	6.7	2.6	24
29...	60	1130	10.5	31	6.7	2.6	23
29...	70	1135	10.0	31	6.7	2.7	24
29...	80	1140	9.5	31	6.6	2.9	25
29...	90	1145	8.5	31	6.6	2.0	17
29...	100	1150	8.0	31	6.6	1.9	16
29...	110	1155	8.0	31	6.5	1.9	16
29...	120	1200	7.5	31	6.4	1.6	13
29...	130	1205	7.5	31	6.4	1.4	12
29...	130	1210	7.5	31	6.4	1.0	8

07360500 LAKE GREESON NEAR MURFREESBORO, ARK.--Continued

CHEMICAL ANALYSES AND WATER TEMPERATURE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	DEPTH (FT)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
AUG.							
24...	.0	1300	29.0	32	7.2	7.1	91
24...	10	1310	29.0	32	7.2	6.8	86
24...	20	1320	27.0	32	6.5	7.0	86
24...	22	1330	26.5	31	6.8	6.0	73
24...	30	1340	21.0	31	6.8	3.4	38
24...	35	1350	16.5	31	6.9	4.2	43
24...	40	1400	14.0	31	6.8	4.8	46
24...	50	1410	12.0	31	6.7	5.0	46
24...	60	1420	11.0	31	6.8	4.8	44
24...	70	1430	10.5	31	6.9	4.7	42
24...	80	1440	10.0	31	6.9	4.6	41
24...	90	1450	9.0	31	6.7	4.5	39
24...	100	1500	8.5	31	6.6	4.4	37
24...	110	1510	8.0	32	6.5	3.9	33
24...	120	1520	8.0	34	6.4	2.0	17
24...	130	1530	8.0	38	6.4	1.8	15
24...	140	1540	8.0	46	6.4	1.3	11

07360501 LITTLE MISSOURI RIVER AT NARROWS DAM, NEAR MURFREESBORO, ARK.

LOCATION.--Lat 34°08'51", long 93°43'04", in NW¼ sec.18, T.7 S., R.25 W., Pike County, at gaging station in powerhouse at Narrows Dam, 6.5 miles northwest of Murfreesboro, 9.5 miles upstream from Muddy Fork Creek, and at mile 105.5.

DRAINAGE AREA.--237 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

REMARKS.--Flow completely regulated by Lake Greeson since Nov. 30, 1949.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.					
09...	14.0	30	7.1	8.4	81
NOV.					
20...	13.5	31	6.7	8.2	78
DEC.					
30...	9.5	30	6.9	9.1	79
FEB.					
05...	6.0	34	6.7	10.4	84
MAR.					
11...	8.0	31	7.0	9.6	81
APR.					
07...	10.0	30	7.4	11.0	97
MAY					
06...	13.0	37	7.4	9.7	92
JULY					
29...	13.5	32	6.7	--	--
AUG.					
24...	13.0	40	6.4	6.7	63

07362065 OUACHITA RIVER BELOW CAMDEN, ARK.

LOCATION.--Lat 33°29'03", long 92°45'11", in NE¼SE¼ sec.20, T.14 S., R.16 W., Ouachita County, at Frenchport Landing, 7.5 miles southeast of Camden, 6.5 miles downstream from Two Bayou Creek (west), and at mile 339.2.

DRAINAGE AREA.--5,676 sq mi.

PERIOD OF RECORD.--Chemical and biological analyses: July 1969 to September 1971.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)
OCT.											
30...	10	270	0	11	2	12	0	--	<.5	9	--
NOV.											
17...	--	--	--	--	--	--	--	--	<.5	--	--
DEC.											
10...	--	--	--	--	--	--	--	--	15	--	--
JAN.											
08...	270	30	0	9	0	5	7	12	--	7	--
FEB.											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
18...	--	--	--	--	--	--	--	--	--	--	--
APR.											
29...	120	160	1	0	6	2	8	0	--	8	1
JUNE											
04...	--	--	--	--	--	--	--	--	--	--	--
JULY											
09...	240	180	0	8	0	2	0	0	--	0	0
AUG.											
02...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
01...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--

DATE	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	PHENOLS (UG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.										
30...	139	6.8	60	20	6	--	4.0	760	410	320
NOV.										
17...	148	6.8	14	--	15	--	2.0	310	160	100
DEC.										
10...	97	7.0	6	--	15	--	1.0	380	29	49
JAN.										
08...	100	7.2	394	0	14	--	2.0	>400	>600	480
FEB.										
18...	112	7.0	22	--	12	--	2.0	760	70	150
MAR.										
18...	99	7.0	36	--	26	--	2.0	400	100	34
APR.										
29...	148	7.5	12	0	14	--	2.0	E2300	E30	46
JUNE										
04...	186	7.2	17	--	13	--	3.1	420	E40	E18
JULY										
09...	237	6.7	4	0	13	--	1.8	135	--	E12
AUG.										
02...	146	7.1	27	--	--	58	--	1000	E27	--
20...	122	6.9	1	--	22	--	1.1	480	96	E22
SEP.										
01...	204	6.9	6	--	17	--	1.0	E120	E20	E12
17...	148	7.0	8	--	13	--	2.8	820	E17	E4

> Greater than.
< Less than.
E Estimated.

07362065 OUACHITA RIVER BELOW CAMDEN, ARK.--Continued

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED ZINC (ZN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.										
30...	50	18	0	6.8	31	2.1	.050	45	30	15
NOV.										
17...	--	24	0	17	24	.0	.030	30	10	20
DEC.										
10...	--	28	0	23	15	1.0	.040	32	9	23
JAN.										
08...	20	24	0	8.0	13	1.0	.040	31	12	20
FEB.										
18...	--	24	0	10	12	.6	.060	26	6	20
MAR.										
18...	--	24	0	10	9.1	.4	.040	33	14	20
APR.										
29...	20	28	0	15	22	1.2	.050	34	11	23
JUNE										
04...	--	32	0	18	22	1.9	.090	33	7	26
JULY										
09...	0	20	0	34	31	2.8	.070	34	18	16
AUG.										
02...	--	24	0	23	11	2.2	.12	30	10	20
20...	--	25	0	10	14	1.3	.14	30	9	20
SEP.										
01...	--	24	0	22	30	4.2	.18	45	26	20
17...	--	16	0	15	17	.3	.080	51	38	13

FIELD ANALYSES

DATE	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.					
30...	17.5	--	7.1	8.5	88
NOV.					
17...	11.0	154	7.1	9.0	82
DEC.					
10...	12.0	110	7.5	9.8	91
JAN.					
08...	4.0	101	6.9	11.5	88
FEB.					
18...	10.0	105	7.4	9.7	86
MAR.					
18...	14.0	--	6.8	8.0	77
APR.					
29...	22.5	150	--	6.0	69
JUNE					
04...	27.5	147	7.1	5.8	72
JULY					
09...	33.0	237	6.8	5.2	71
AUG.					
02...	24.5	109	6.8	5.2	81
20...	24.0	125	7.1	5.2	61
SEP.					
01...	28.0	206	--	4.9	62
17...	27.5	134	--	5.9	75

07362200 SMACKOVER CREEK NEAR NORPHLET, ARK.

LOCATION.--Lat 33°22'02", long 92°38'52", in NW¼ sec.3, T.16 S., R.15 W., Union County, at bridge on county road 3.5 miles north of Norphlet.

DRAINAGE AREA.--500 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1952 to September 1955, October 1959 to September 1971.
Water temperature: October 1952 to September 1955, October 1959 to July 1960, October 1961 to September 1970.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
OCT.								
29...	200	930	0	12	17	7	10	--
DEC.								
10...	--	--	--	--	--	--	--	--
JAN.								
07...	390	620	1	12	12	11	0	210
APR.								
28...	460	740	2	0	13	6	12	30
JULY								
08...	510	730	0	19	4	4	0	30

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.									
29...	<.5	39	--	30	620	7.9	12	0	17
DEC.									
10...	3.6	--	--	--	--	--	--	--	--
JAN.									
07...	--	20	--	40	--	--	--	--	--
APR.									
28...	--	8	0	20	380	4.6	4	0	24
JULY									
08...	--	0	0	20	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	NITRATE (NO3) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	PH (UNITS)
OCT.								
29...	1300	.8	490	480	10	73	12	5.9
DEC.								
10...	--	--	--	--	--	--	--	--
JAN.								
07...	--	--	--	--	--	--	--	--
APR.								
28...	740	.3	250	250	3	76	11	6.0
JULY								
08...	--	--	--	--	--	--	--	--

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE									
14...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE								
14...	.00	.00	.00	.00	.00	.00	.00	.00

DATE	2,4-D IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)
JUNE			
14...	<4.9	<1.3	5.2

< Less than.

07362200 SMACKOVER CREEK NEAR NORPHLET, ARK.--Continued

WATER TEMPERATURE AND SPECIFIC CONDUCTANCE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT.		
04...	--	8080
04...	23.0	--
11...	--	9840
11...	15.5	--
18...	--	4950
18...	15.0	--
25...	--	5700
25...	16.5	--
29...	--	3450
29...	16.0	--
NOV.		
01...	--	3290
01...	13.0	--
08...	--	5700
08...	15.5	--
15...	--	2500
15...	10.0	--
29...	--	436
DEC.		
06...	--	4490
06...	12.0	--
13...	--	4300
13...	13.0	--
20...	--	6620
20...	13.0	--
27...	--	2560
27...	6.5	--
JAN.		
03...	--	3600
03...	9.0	--
09...	--	2710
09...	5.0	--
17...	--	2780
17...	6.5	--
24...	--	3410
24...	10.0	--
31...	--	2170
31...	9.5	--
FEB.		
07...	--	4300
FEB.		
07...	7.0	--
14...	--	3620
14...	6.0	--
21...	--	513
21...	9.0	--
28...	--	1410
28...	13.0	--
MAR.		
07...	--	2030
07...	5.0	--
14...	--	1310
30...	--	1350
30...	14.0	--
APR.		
04...	--	1840
04...	14.0	--
12...	--	2420
12...	16.5	--
18...	--	6560
18...	18.5	--
25...	--	2780
25...	18.0	--
28...	--	2340
28...	21.5	--
MAY		
02...	--	2610
02...	17.0	--
09...	--	2720
09...	20.0	--
17...	--	676
17...	20.0	--
23...	--	1970
23...	21.5	--
30...	--	3100
30...	22.0	--
JUNE		
06...	--	3090
06...	25.5	--
13...	--	2920
13...	26.5	--
JUNE		
20...	--	4070
20...	29.5	--
27...	--	5350
27...	32.0	--
JULY		
05...	--	3460
05...	25.5	--
11...	--	3000
11...	29.0	--
17...	--	883
17...	25.0	--
25...	--	591
25...	23.5	--
31...	--	823
31...	21.0	--
AUG.		
08...	--	792
08...	27.0	--
15...	--	1170
15...	23.5	--
21...	--	3090
21...	29.0	--
28...	--	4070
28...	25.0	--
SEP.		
05...	--	4480
05...	25.5	--
12...	--	4440
12...	29.0	--
18...	--	7490
18...	25.5	--
26...	--	4270
26...	26.0	--

07362390 OUACHITA RIVER AT CALION, ARK.

LOCATION (revised).--Lat 33°20'19", long 92°31'47", in SW¼NE¼ sec.10, T.16 S., R.14 W., Union County, on downstream side of bridge on U.S. Highway 167 at Calion.

PERIOD OF RECORD.--Chemical analyses: October 1949 to September 1954. Chemical and biological analyses: October 1970 to September 1971 (discontinued). Specific conductance and daily chloride: October 1954 to May 1955.
Water temperature: October 1949 to May 1955.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 19, 1970	17.	770.	750.0	23.2	4.40	11.8	150.0	1.10	0.520	541.
NOV. 16......	11.	-	-	-	-	-	92.0	-	-	-
DEC. 21......	11.	-	-	-	-	-	103.5	-	-	-
JAN. 25, 1971	-	220.	0	16.0	5.30	5.1	100.0	1.02	0.180	261.
FEB. 22......	7.	-	-	-	-	-	103.0	-	-	-
MAR. 15......	14.	-	-	-	-	-	45.0	-	-	-
APR. 26......	20.	350.	30.0	18.4	4.90	10.0	97.0	0.93	0.050	316.
MAY 24......	23.	-	-	-	-	-	133.0	-	-	-
JUNE 14......	30.	-	-	-	-	-	46.0	-	-	-
JULY 13......	33.	90.	40.0	12.8	-	12.4	56.0	4.20	0	198.
JULY 26......	24.	1000.	20.0K	4.8	-	1.0	36.0	0.70	0.050	151.
AUG. 23......	28.	-	-	-	-	-	47.5	-	-	-
SEP. 27......	25.	-	-	-	-	-	64.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 19, 1970	76.	58.0	31.	549.	6.80	30.	25.K	3.5	5.1
NOV. 16......	-	-	19.	292.	6.90	-	25.K	1.0	8.1
DEC. 21......	-	-	31.	394.	6.50	-	25.K	1.8	8.8
JAN. 25, 1971	62.	40.0	31.	380.	6.70	10.	25.K	1.2	9.4
FEB. 22......	-	-	20.	310.	6.70	-	25.K	1.0	7.8
MAR. 15......	-	-	19.	190.	6.70	-	35.	1.1	8.7
APR. 26......	66.	46.0	15.	359.	6.70	10.	25.K	3.2	5.3
MAY 24......	-	-	16.	448.	6.50	-	30.	2.4	3.8
JUNE 14......	-	-	23.	262.	7.00	-	25.K	1.5	8.2
JULY 13......	42.	32.0	21.	181.	7.70	15.	25.K	4.3	6.2
JULY 26......	28.	12.0	8.	135.	6.30	-	65.	2.8	4.7
AUG. 23......	-	-	17.	192.	6.40	-	25.K	1.1	4.2
SEP. 27......	-	-	18.	444.	6.40	-	25.K	-	-

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 19, 1970	430000.	3400.	350.
JAN. 25, 1971	9800.	430.	43.
APR. 29......	1100.	960.	100.
JULY 26......	1200.	730.	93.

K Less than.

07363300 HURRICANE CREEK NEAR SHERIDAN, ARK.

LOCATION.--Lat 34°19'10", long 92°20'40", in NW¼NE¼ sec.6, T.4 S., R.12 W., Grant County, at gaging station on downstream side of bridge on U.S. Highway 270, 2.8 miles downstream from Simpson Creek, 3.5 miles east of Sheridan, and at mile 16.9.

DRAINAGE AREA.--204 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1949 to September 1955, October 1967 to September 1971.
Water temperature: October 1949 to September 1955.

EXTREMES.--1970-71:
Specific conductance: Maximum, 3,000 micromhos Oct. 16; minimum, 35 micromhos Apr. 2, 3.

Period of record:
Specific conductance: Maximum, 3,000 micromhos Oct. 16, 1970; minimum, 34 micromhos Feb. 12, 1950.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)
OCT.										
28...	46	70	7400	11000	--	--	--	--	--	--
DEC.										
02...	17	--	--	--	--	--	--	--	--	--
JAN.										
14...	79	30	610	0	0	0	0	0	2	30
MAR.										
16...	410	--	--	--	0	--	6	--	5	--
APR.										
21...	26	0	300	0	2	0	5	3	7	--

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.										
28...	--	--	--	--	250	6.5	0	0	860	5.2
DEC.										
02...	--	--	--	<.5	--	--	--	--	--	--
JAN.										
14...	5	--	20	--	--	--	--	--	--	--
MAR.										
16...	--	--	--	--	--	--	--	--	--	--
APR.										
21...	10	1	0	--	31	2.0	24	0	96	5.7

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.										
28...	4.7	.9	230	230	0	70	7.2	1720	4.4	6
DEC.										
02...	--	--	--	--	--	--	--	--	--	--
JAN.										
14...	--	--	--	--	--	--	--	--	--	--
MAR.										
16...	--	--	--	--	--	--	--	--	--	--
APR.										
21...	1.0	.1	60	40	20	52	1.7	283	7.3	5

< Less than.

07363300 HURRICANE CREEK NEAR SHERIDAN, ARK.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT. 20...	15.0	--	4.5	5.8	57
DEC. 02...	12.0	400	--	--	--
JAN. 14...	10.0	308	--	--	--
MAR. 16...	14.5	136	--	--	--
APR. 21...	17.5	305	6.4	9.1	95
JUNE 15...	30.0	576	--	--	--

ANALYSIS OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE 15...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLORDANE (UG/L)	PARATHION (UG/L)	METHYL PARATHION (UG/L)	MALATHION (UG/L)	DIAZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE 15...	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
JUNE 15...	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)
JUNE 15...	<.20	<1.0	<.20	<.20	<.20	<.80	<.20	<.20

< Less than.

07363300 HURRICANE CREEK NEAR SHERIDAN, ARK.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1010	990	1000	800	710	777	490	410	460	364	360	362
2	1030	1010	1020	805	755	784	410	370	390	403	370	390
3	1030	1030	1030	755	745	750	370	323	335	403	325	353
4	1030	1030	1030	795	745	755	465	327	405	327	290	314
5	1030	1020	1020	835	795	812	550	465	509	280	220	249
6	1020	1020	1020	850	835	846	620	550	576	220	220	220
7	1020	1020	1020	850	840	845	625	620	625	220	220	220
8	1020	1020	1020	840	825	833	624	598	620	235	220	226
9	1020	940	975	825	790	799	598	557	571	---	---	---
10	940	940	940	790	780	785	557	540	545	---	---	---
11	940	835	893	796	695	741	540	540	540	---	---	---
12	1000	832	903	655	630	632	544	540	542	---	---	---
13	900	835	855	630	630	630	544	544	544	310	310	310
14	835	805	825	710	635	667	544	544	544	310	302	306
15	2900	805	1920	735	695	730	542	542	542	327	305	317
16	3000	1900	2530	695	445	550	573	542	566	320	314	317
17	1900	1740	1830	540	445	486	574	502	536	410	314	356
18	1760	1730	1740	540	535	537	577	262	362	320	308	317
19	1730	1710	1720	535	443	480	260	257	259	308	305	306
20	1890	1710	1760	443	423	445	280	255	262	300	293	294
21	2220	1890	2040	423	423	423	280	273	279	315	293	301
22	2500	2220	2370	478	423	443	340	271	289	315	315	315
23	2710	2500	2630	480	480	480	360	282	336	330	316	321
24	2800	2710	2770	480	430	456	280	230	246	331	304	314
25	2900	2790	2800	502	430	452	235	---	231	331	257	298
26	2790	2540	2690	502	442	472	---	---	---	362	253	297
27	2960	1930	2250	442	442	442	---	---	---	252	242	248
28	1930	725	1610	465	442	452	---	---	---	241	235	238
29	725	485	551	465	465	465	---	---	---	237	235	236
30	595	485	516	490	465	494	338	310	315	245	237	239
31	710	600	658	---	---	---	360	338	352	278	247	275
MONTH	3000	485	1480	850	423	615	625	230	436	410	220	294

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	276	273	274	174	172	173	184	165	180	240	224	234
2	290	273	278	175	172	172	220	35	132	268	240	261
3	322	290	308	243	175	195	75	35	38	270	268	270
4	291	290	290	243	222	228	530	65	224	270	270	270
5	290	268	283	229	222	227	270	210	234	270	270	270
6	267	262	263	228	225	226	230	204	221	270	270	270
7	358	248	302	224	224	224	204	204	204	300	270	288
8	248	215	229	261	169	217	228	204	222	300	300	300
9	215	213	214	212	151	183	228	198	223	300	300	300
10	213	213	213	224	169	176	257	153	198	300	300	300
11	213	200	207	192	169	173	165	135	149	342	300	321
12	200	200	200	200	182	196	165	165	165	365	340	346
13	233	200	205	200	193	198	165	95	162	382	365	373
14	234	230	232	183	152	164	200	165	185	380	320	358
15	233	230	230	---	---	---	205	200	201	320	295	308
16	230	221	227	---	---	---	208	55	200	295	295	295
17	221	216	220	160	140	149	200	200	200	310	295	299
18	216	197	203	205	160	197	200	200	200	340	310	325
19	198	178	185	200	170	196	238	60	205	355	340	348
20	178	170	171	195	180	182	223	223	223	360	355	360
21	170	170	170	243	185	211	305	223	271	362	360	360
22	175	170	174	243	190	206	298	298	298	364	364	364
23	174	174	174	290	74	195	298	289	292	364	364	364
24	176	174	174	218	196	200	330	285	298	364	355	361
25	193	174	182	198	198	198	440	240	339	---	---	---
26	225	193	208	198	198	198	240	215	222	---	---	---
27	215	190	202	200	200	200	215	210	211	350	300	341
28	340	174	229	200	190	192	210	210	210	355	350	352
29	---	---	---	205	186	195	210	210	210	418	355	401
30	---	---	---	185	185	185	224	210	212	475	420	456
31	---	---	---	185	178	181	---	---	---	495	475	478
MONTH	358	170	223	290	74	196	530	35	211	495	224	330

07363300 HURRICANE CREEK NEAR SHERIDAN, ARK.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	565	475	529	---	---	---	---	---	---	475	380	429
2	550	545	547	---	---	---	---	---	---	575	475	550
3	547	525	537	---	---	---	---	---	---	760	575	650
4	525	445	490	---	---	---	---	---	---	775	675	700
5	460	445	457	---	---	---	---	---	---	675	600	620
6	575	460	484	---	---	---	---	---	---	600	590	600
7	750	575	600	---	---	---	---	---	---	600	550	580
8	750	725	747	---	---	---	---	---	---	600	480	525
9	725	665	695	---	---	---	---	---	---	550	530	532
10	670	670	670	---	---	---	260	230	244	500	340	420
11	670	600	636	---	---	---	250	240	245	320	290	300
12	600	600	600	---	---	---	250	230	234	290	275	280
13	600	600	600	---	---	---	290	250	275	275	275	275
14	600	595	600	---	---	---	375	300	358	280	275	279
15	595	565	579	---	---	---	455	350	365	285	280	285
16	565	555	563	---	---	---	455	350	400	285	285	285
17	555	545	549	---	---	---	425	212	300	285	285	285
18	555	550	553	---	---	---	220	220	220	285	285	285
19	555	540	544	---	---	---	240	220	230	285	285	285
20	540	535	538	---	---	---	260	240	250	285	285	285
21	535	535	535	---	---	---	250	230	240	320	285	305
22	535	535	535	---	---	---	240	225	230	360	320	335
23	587	535	556	---	---	---	275	225	250	360	345	350
24	620	587	608	---	---	---	275	225	235	525	345	420
25	635	620	630	---	---	---	310	250	270	650	525	600
26	635	635	635	---	---	---	325	310	315	775	650	715
27	635	635	635	---	---	---	550	325	437	780	775	777
28	635	630	633	---	---	---	550	425	500	780	700	700
29	630	625	625	---	---	---	435	375	405	780	700	700
30	---	---	---	---	---	---	575	445	515	780	700	700
31	---	---	---	---	---	---	580	420	500	---	---	---
MONTH	750	445	583	---	---	---	---	---	---	780	275	477

07363500 SALINE RIVER NEAR RYE, ARK.

LOCATION.--Lat 33°42'00", long 92°01'33", in SW¼NW¼ sec.3, T.12 S., R.9 W., Bradley County, at gaging station near left bank on downstream side of bridge on State Highway 15, 3.6 miles southwest of Rye, 5.8 miles upstream from Hudgin Creek, and at mile 71.0.

DRAINAGE AREA.--2,062 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1946 to September 1947, October 1948 to September 1955, November 1957 to September 1960, October 1967 to September 1971.
Water temperature: October 1946 to September 1947, October 1948 to September 1955, October 1958 to September 1959.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)
OCT.			
14...	109	19.0	97
NOV.			
25...	657	6.5	103
JAN.			
06...	1200	5.5	56
FEB.			
03...	672	6.0	114
MAR.			
11...	1960	8.5	100
APR.			
14...	473	17.5	145
MAY			
19...	1000	--	113
JUNE			
15...	170	29.5	140
JULY			
20...	1170	23.5	66

ANALYSIS OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE									
15...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLOR-DANE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE								
15...	.00	.00	.00	.00	.00	.00	.00	.00

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
JUNE								
15...	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)
JUNE								
15...	<.20	<.10	<.20	<.20	<.20	<.80	<.30	<.40

< Less than.

07364016 SALINE RIVER NEAR CROSSETT, ARK.

LOCATION.--Lat 33°15'23", long 92°02'44", in SE¼SE¼ sec.5, T.17 S., R.9 W., Ashley County, at Chicago, Rock Island and Pacific Railroad bridge near Lake Georgia Pacific, and 9.0 miles northwest of Crossett.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 19, 1970	19.	140.	100.0	12.0	1.50	24.3	10.5	[illegible]	0.170	88.
NOV. 16......	10.	-	-	-	-	-	10.0	-	-	-
DEC. 21......	12.	-	-	-	-	-	8.5	-	-	-
JAN. 25, 1971	10.	430.	0	8.0	3.40	8.8	7.0	0.30	0.250	110.
FEB. 22......	10.	-	-	-	-	-	6.5	-	-	-
MAR. 15......	17.	-	-	-	-	-	4.0	-	-	-
APR. 26......	22.	720.	30.0	8.8	3.50	15.1	7.5	0.15	0.080	104.
MAY 24......	24.	-	-	-	-	-	7.0	-	-	-
JUNE 14......	30.	-	-	-	-	-	5.0	-	-	-
JULY 26......	25.	600.	210.0	3.2	-	2.0	7.0	0.40	0.100	119.
AUG. 23......	28.	-	-	-	-	-	6.0	-	-	-
SEP. 27......	27.	-	-	-	-	-	7.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 19, 1970	36.	30.0	24.	136.	7.10	5.	25.K	1.4	8.4
NOV. 16......	-	-	22.	91.	7.00	-	25.K	1.0	9.7
DEC. 21......	-	-	34.	132.	7.00	-	25.K	1.0	10.1
JAN. 25, 1971	34.	20.0	20.	85.	6.00	50.	30.	1.5	10.1
FEB. 22......	-	-	24.	69.	6.30	-	50.	1.2	9.3
MAR. 15......	-	-	15.	86.	6.60	-	50.	1.5	8.3
APR. 26......	36.	22.0	25.	107.	7.00	40.	25.K	1.5	7.1
MAY 24......	-	-	21.	104.	6.70	-	25.K	1.2	6.0
JUNE 14......	-	-	27.	208.	7.00	-	25.K	2.3	8.3
JULY 26......	20.	8.0	10.	-	6.60	-	35.	2.4	4.7
AUG. 23......	-	-	20.	109.	6.60	-	25.K	0.5	5.3
SEP. 27......	-	-	53.	108.	6.90	-	25.K	-	-

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCB MF/100ML
OCT. 19, 1970	1900.	180.	23.
JAN. 25, 1971	1500.	870.	250.
APR. 26......	340.	340.K	400.K
JULY 26......	2200.	4.K	87.K

K Less than.

07364080 OUACHITA RIVER NEAR FELSENTHAL, ARK.

LOCATION.--Lat 33°01'55", long 92°05'15", in NE¼ sec.25, T.19 S., R.10 W., Union County, at Corps of Engineers Lock No. 6, 3 miles south of Felsenthal.

DRAINAGE AREA.--10,707 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1949 to September 1971.
Water temperature: October 1949 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum daily, 1,090 micromhos July 23; minimum daily, 113 micromhos Nov. 11.

Period of record:
Specific conductance: Maximum daily, 7,610 micromhos Oct. 7, 1954; minimum daily, 44 micromhos May 19, 1958.
Water temperature: Maximum, 37.0°C July 11, 1969; minimum, freezing point Feb. 8, 12, 13, 1958, Dec. 22, Jan. 12, 1970.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
29...	2090	80	30	0	4	0	2	0	--	<.5
DEC.										
10...	3960	--	--	--	--	--	--	--	--	2.2
JAN.										
08...	10900	120	90	1	7	0	7	0	40	--
APR.										
28...	1710	150	330	2	0	7	4	10	0	--
JULY										
08...	1490	310	260	0	20	0	2	0	0	--

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.									
29...	6	--	4	170	3.2	20	0	9.4	230
DEC.									
10...	--	--	--	--	--	--	--	--	--
JAN.									
08...	5	--	10	--	--	--	--	--	--
APR.									
28...	5	1	70	44	2.4	16	0	4.4	170
JULY									
08...	0	0	70	--	--	--	--	--	--

DATE	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
OCT.									
29...	11	--	68	47	16	72	5.3	--	6.6
DEC.									
10...	--	--	--	--	--	--	--	--	--
JAN.									
08...	--	--	--	--	--	--	--	--	--
APR.									
28...	1.3	.170	78	65	13	72	4.6	637	6.8
JULY									
08...	--	--	--	--	--	--	--	--	--

FIELD ANALYSES

DATE	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.					
29...	18.5	660	6.5	4.5	48
APR.					
28...	21.0	--	--	5.8	66
JUNE					
15...	28.5	366	7.2	--	--

< Less than.

07364080 OUACHITA RIVER NEAR FELSENTHAL, ARK.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

ANALYSIS OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
JUNE 15...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLORDANE (UG/L)	PARATHION (UG/L)	METHYL PARATHION (UG/L)	MALATHION (UG/L)	DIAZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
JUNE 15...	.00	.00	.00	.00	.01	.00	.00	.00

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
JUNE 15...	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	SILVEX IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)
JUNE 15...	<.20	<1.0	<.20	<.20	<.20	<.60	<.20	<.20

< Less than.

07364080 OUACHITA RIVER NEAR FELSENTHAL, ARK.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	499	634	---	216	268	274	228	470	312	387	243	286
2	541	237	---	218	259	232	240	343	326	376	210	289
3	486	261	---	221	230	207	254	328	279	384	210	334
4	424	214	---	236	219	193	280	321	272	368	253	387
5	372	192	---	307	206	201	354	333	295	366	245	339
6	354	168	---	337	231	206	340	334	280	412	281	282
7	368	163	---	315	304	272	308	---	224	402	238	270
8	366	150	---	384	288	206	322	343	294	426	183	292
9	371	155	---	260	271	214	333	373	313	425	165	374
10	420	120	---	183	263	224	328	479	354	453	143	414
11	422	113	---	157	275	208	---	406	381	408	138	469
12	636	114	---	173	315	203	320	354	436	403	179	519
13	443	152	---	169	332	210	366	680	442	419	180	556
14	347	181	---	178	316	218	386	469	389	442	174	562
15	360	222	---	179	264	281	391	320	321	447	189	563
16	422	236	---	180	309	343	371	245	318	495	223	548
17	402	282	---	151	435	219	358	197	314	535	219	502
18	390	543	---	165	245	174	364	179	312	588	192	469
19	428	323	---	172	310	176	348	190	341	726	185	459
20	503	485	---	164	356	184	342	174	354	858	177	457
21	514	324	---	166	292	179	331	166	353	933	192	459
22	574	286	---	177	418	194	364	170	365	1060	188	454
23	730	254	---	232	251	194	396	170	457	1090	183	453
24	656	217	---	229	280	211	470	202	463	1080	179	427
25	706	224	---	193	290	205	445	208	353	1020	179	417
26	732	221	---	201	214	204	433	221	542	818	202	421
27	644	216	---	279	269	192	418	215	570	629	215	435
28	594	243	---	234	270	226	601	217	548	194	224	443
29	810	252	---	379	---	264	905	235	510	148	222	458
30	876	288	---	380	---	314	848	266	430	153	225	449
31	623	---	---	322	---	226	---	293	---	400	240	---
MONTH	518	249	---	233	287	223	395	297	372	544	202	426

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	19.0	---	10.0	5.5	---	14.0	22.0	24.5	---	28.0	26.0
2	26.0	19.0	---	7.0	5.5	---	12.0	22.0	24.5	---	28.0	26.0
3	25.5	19.0	---	9.0	---	---	14.5	22.0	28.5	---	27.0	26.0
4	26.5	15.5	---	9.0	6.0	---	15.5	20.5	25.5	---	29.5	26.0
5	24.5	15.0	---	7.0	6.0	---	14.5	22.0	24.0	---	28.0	26.0
6	25.0	14.5	---	6.5	9.0	---	14.5	22.0	22.0	---	---	26.0
7	25.0	14.5	---	5.5	7.0	---	14.5	---	26.5	---	29.5	26.0
8	25.0	15.0	---	6.0	5.5	---	15.0	21.5	27.0	---	25.5	26.0
9	24.5	14.0	---	---	5.5	---	15.5	22.0	23.0	---	25.5	26.0
10	25.5	14.5	---	6.0	---	---	15.5	22.0	27.0	---	25.5	26.0
11	25.0	14.5	---	7.0	---	---	---	21.5	30.0	---	26.5	26.5
12	25.0	11.5	---	7.0	5.5	11.0	16.5	22.0	28.0	---	26.5	26.5
13	24.5	13.0	---	6.5	5.5	11.5	13.5	22.0	30.5	---	26.5	26.5
14	22.0	13.0	---	6.5	---	12.0	16.5	21.5	29.0	---	26.0	26.5
15	22.0	11.5	---	7.0	---	12.0	18.0	23.0	31.5	---	26.5	26.5
16	20.5	11.5	---	7.0	---	14.5	18.5	22.0	29.5	---	26.0	26.5
17	21.0	11.5	---	7.0	---	15.5	19.0	23.0	29.5	---	26.5	26.5
18	19.5	11.5	---	6.5	---	15.5	19.5	23.5	29.5	---	26.5	26.5
19	19.5	11.5	---	7.0	---	16.0	19.5	24.0	29.5	---	26.5	26.5
20	19.5	11.5	---	7.0	---	13.5	20.5	22.0	29.5	---	26.5	26.5
21	19.0	11.5	---	7.0	---	13.5	20.5	24.0	29.0	---	26.5	26.5
22	20.0	15.5	---	7.0	---	13.5	18.5	21.0	29.5	---	26.5	26.5
23	19.5	10.0	---	7.0	10.0	15.5	18.5	22.0	29.5	---	27.0	26.5
24	19.5	10.0	---	7.0	10.0	14.5	22.0	22.0	29.5	---	27.0	26.5
25	19.5	10.0	---	7.0	---	12.0	21.0	23.0	29.5	---	27.0	26.5
26	19.5	10.0	---	7.0	10.0	12.0	21.0	22.0	33.5	---	28.0	26.5
27	19.5	10.0	---	5.5	---	13.0	21.5	22.0	29.5	---	27.0	26.5
28	19.0	11.0	---	6.5	---	13.0	22.0	23.5	33.5	---	27.0	26.5
29	19.5	11.5	---	7.0	---	13.5	22.0	22.0	30.0	---	27.0	26.5
30	18.5	11.5	---	---	---	13.0	22.0	26.0	34.0	---	27.0	26.5
31	17.0	---	---	5.5	---	13.0	---	24.5	---	---	27.0	---
MONTH	22.0	13.0	---	7.0	---	---	18.0	22.5	28.5	---	27.0	26.5

07364102 COFFEE CREEK NEAR FELSENTHAL, ARK.

LOCATION.--Lat 33°01'58", long 92°04'26", in SE¼NW¼ sec.30, T.19 S., R.9 W., Ashley County, at bridge on timber access road 0.3 miles below Mossy Lake, and 5.5 miles southeast of Felsenthal.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
FEB. 22, 1971	20.	-	-	-	-	-	372.0	-	-	-
MAR. 15......	28.	-	-	-	-	-	195.0	-	-	-
APR. 26......	27.	870.	930.0	62.4	13.40	1.K	37.0	1.18	0.100	1080.
MAY 24......	27.	-	-	-	-	-	325.0	-	-	-
JUNE 14......	34.	-	-	-	-	-	275.0	-	-	-
JULY 26......	29.	430.	280.0	61.6	-	-	368.0	1.10	0.130	1167.
AUG. 23......	30.	-	-	-	-	-	280.0	-	-	-
SEP. 27......	-	-	-	-	-	-	230.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
FEB. 22, 1971	-	-	299.	2564.	8.70	-	-	128.0L	0
MAR. 15......	-	-	136.	1136.	7.00	-	100.	150.0	0
APR. 26......	211.	156.0	347.	1422.	7.70	1120.	100.	90.0	0
MAY 24......	-	-	379.	1428.	8.10	-	340.	56.0	0
JUNE 14......	-	-	346.	1818.	7.90	-	130.	72.0	0
JULY 26......	181.	154.0	326.	2000.	8.00	-	110.	43.0	0
AUG. 23......	-	-	331.	2200.	8.20	-	220.	59.0	0
SEP. 27......	-	-	262.	4545.	7.60	-	200.	-	-

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STRCOCCI M-ENTCCS MF/100ML
APR. 26, 1971	380000.	84000.	8600.
JULY 26......	100.K	50.K	50000.

K Less than.
L Greater than.

07364150 BAYOU BARTHOLOMEW NEAR MCGEHEE, ARK.

LOCATION.--Lat 33°37'40", long 91°26'45", in NE¼SW¼ sec.30, T.12 S., R.3 W., Desha County, at gaging station near center of stream on downstream side of bridge on State Highway 4, 2.7 miles west of McGehee, 17.5 miles downstream from Ables Creek, and at mile 200.5.

DRAINAGE AREA.--592 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1959 to September 1971.
Water temperature: October 1959 to September 1963.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)
OCT. 13...	50	100	40	0	0	--	8	1	--	50
NOV. 24...	46	--	--	--	--	--	--	--	--	--
JAN. 05...	175	80	50	1	7	0	18	2	20	13
FEB. 02...	910	--	--	--	--	--	--	--	--	--
MAR. 10...	260	--	--	--	--	--	--	--	--	--
APR. 13...	157	30	160	2	0	3	9	13	0	7
MAY 18...	1070	--	--	--	--	--	--	--	--	--
JUNE 22...	29	--	--	--	--	--	--	--	--	--
JULY 27...	154	20	220	0	18	0	4	0	0	1
AUG. 31...	272	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL AMMONIA ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
OCT. 13...	--	23	<.5	.21	.13	321	7.7	40	60	18
NOV. 24...	--	--	.6	.02	.19	265	7.3	10	44	14
JAN. 05...	--	10	.5	.43	.18	208	7.0	340	60	26
FEB. 02...	--	--	--	.72	.30	83	6.7	280	110	24
MAR. 10...	--	--	--	.50	.93	109	--	200	48	26
APR. 13...	0	30	--	.39	.38	127	7.5	50	180	28
MAY 18...	--	--	--	.26	.11	113	7.5	100	45	32
JUNE 22...	--	--	--	.29	.13	224	7.1	50	26	12
JULY 27...	0	10	--	.51	1.5	152	6.9	100	100	18
AUG. 31...	--	--	--	.60	.29	140	7.0	100	100	35

07364150 BAYOU BARTHOLOMEW NEAR MCGEHEE, ARK.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

FIELD ANALYSES

DATE	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT. 13...	17.5	--	7.1	6.7	70
NOV. 24...	7.5	264	7.6	9.1	76
JAN. 05...	5.5	222	6.8	9.8	78
FEB. 02...	6.0	83	6.9	9.6	77
MAR. 10...	10.0	105	6.7	--	--
APR. 13...	19.5	141	7.3	5.7	61
MAY 18...	19.0	106	6.8	5.7	61
JUNE 22...	27.0	246	7.1	--	--
JULY 27...	24.5	145	6.5	5.4	64
AUG. 31...	26.0	149	7.0	3.8	46

ANALYSES OF ADDITIONAL SAMPLES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
OCT. 13...	.00	.02	.02	.02	.00	.00	.00	.00	.00
JAN. 06...	.00	.02	.01	.07	.00	.00	.00	.00	.00
APR. 13...	.00	.02	.01	.02	.00	.00	.00	.00	.00
JULY 27...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	CHLOR-DANE (UG/L)	TOX-APHENE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
OCT. 13...	.00	.10	.00	.00	.00	.00	.00	.00	.01
JAN. 06...	.00	.10	.00	.00	.00	.00	.00	.00	.04
APR. 13...	.00	.00	.00	.00	.00	.00	.00	.00	.00
JULY 27...	.00	5.8	--	--	--	--	.00	.00	.24

DATE	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)
OCT. 13...	.00	8.3	6.6	5.9	.00	.00	.00	.00	.00
JAN. 06...	.00	58	29	27	.00	.00	.00	.00	.00
APR. 13...	<.20	93	62	31	<.20	<.20	<.20	<.20	<.20
JULY 27...	<.20	137	76	7.6	<.20	<.20	<.20	<.20	<.20

DATE	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	TOX-APHENE IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)
OCT. 13...	.00	--	.00	.00	.00	.00	.00	.00	2.3
JAN. 06...	.00	480	.00	.00	.00	--	.00	.00	.00
APR. 13...	<1.0	<10	--	--	--	--	<1.8	<.20	<.20
JULY 27...	<1.0	<10	<.20	<.20	<.20	--	<1.1	<.40	<.50

< Less than.

07364200 BAYOU BARTHOLOMEW NEAR JONES, LA.

LOCATION.--Lat 32°59'25", long 91°39'20", in SE¼SW¼ sec.9, T.23 N., R.8 E., Morehouse Parish, on downstream side of right pier of bridge on Louisiana State Highway 834, 1 mile downstream from Arkansas-Louisiana State line, and 1.6 miles northwest of Jones.

DRAINAGE AREA.--1,187 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1958, October 1967 to September 1971.
Water temperature: October 1958 to September 1968.

REMARKS.--Additional records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT. 08...	105	13	10	35	7.9	24	3.7	164	6.4	27
DEC. 01...	132	14	10	24	6.3	15	4.0	117	6.4	15
08...	131	--	--	--	--	--	--	--	--	--
JAN. 28...	495	12	290	14	4.3	9.3	3.3	61	10	13
MAR. 16...	913	7.1	220	8.0	1.7	7.2	4.0	30	11	5.9
APR. 22...	350	7.2	20	12	3.2	11	2.5	59	11	8.5
JUNE 10...	469	8.7	60	11	2.8	8.0	2.6	48	8.4	8.0
JULY 22...	113	14	10	25	6.2	17	3.0	120	5.8	18
AUG. 26...	--	3.1	50	12	3.4	6.5	3.8	60	4.0	5.2
SEP. 28...	142	18	--	24	6.3	16	2.9	121	3.8	14

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 08...	.2	.1	200	198	120	0	350	7.5	23.0	10
DEC. 01...	.2	.1	152	143	86	0	249	7.1	12.0	10
08...	--	--	--	--	--	--	261	--	10.0	--
JAN. 28...	.1	.8	116	97	53	3	165	7.0	6.0	60
MAR. 16...	.2	1.0	106	61	27	3	100	6.6	18.0	100
APR. 22...	.1	.1	94	85	43	0	141	6.6	22.0	25
JUNE 10...	.1	.3	88	74	39	0	124	6.6	19.0	35
JULY 22...	.2	.1	148	148	88	0	265	7.1	28.0	10
AUG. 26...	.2	.4	91	69	44	0	124	6.8	--	40
SEP. 28...	.1	.7	153	146	86	0	235	7.4	24.0	30

07364200 BAYOU BARTHOLOMEW NEAR JONES, LA.--Continued

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971[a]/

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 20, 1970	16.	-	-	-	-	-	30.5	-	-	-
NOV. 17......	8.	-	-	-	-	-	15.5	-	-	-
DEC. 22......	12.	740.	0.	16.0	6.30	1.K	14.5	0.18	0.680	509.
JAN. 26, 1971	9.	-	-	-	-	-	21.0	-	-	-
FEB. 23......	8.	-	-	-	-	-	8.5	-	-	-
MAR. 16......	13.	2500.	30.0	7.2	5.80	1.5	6.5	0.55	0.690	279.
APR. 27......	22.	-	-	-	-	-	13.0	-	-	-
MAY 25......	20.	-	-	-	-	-	4.5	-	-	-
JUNE 15......	28.	-	-	-	-	-	10.0	-	-	-
JULY 27......	25.	-	-	-	-	-	15.5	-	-	-
AUG. 24......	26.	-	-	-	-	-	8.0	-	-	-
SEP. 28......	24.	-	-	224.0	10.00	-	14.0	0.30	-	156.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 20, 1970	-	-	86.	207.	7.40	-	30.	1.5	8.7
NOV. 17......	-	-	11.	149.	7.30	-	25.K	1.8	7.9
DEC. 22......	66.	40.0	69.	164.	6.60	40.	25.K	1.5	8.1
JAN. 26, 1971	-	-	51.	148.	6.50	-	30.	1.0	8.8
FEB. 23......	-	-	30.	88.	6.50	-	150.	1.3	8.1
MAR. 16......	42.	18.0	24.	91.	7.00	200.	80.	0.9	7.6
APR. 27......	-	-	48.	173.	7.20	-	55.	0.6	4.8
MAY 25......	-	-	16.	58.	6.70	-	40.	0.8	4.7
JUNE 15......	-	-	52.	182.	7.10	-	65.	4.8	3.6
JULY 27......	-	-	67.	178.	7.50	-	45.	2.8	5.1
AUG. 24......	-	-	35.	98.	6.70	-	25.K	0.2	4.8
SEP. 28......	96.	56.0	97.	434.	7.20	-	45.	-	-

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
MAR. 16, 1971	1200.	320.	340.
JUNE 15......	420.	280.	150.
SEP. 28......	240.	150.	140.

a Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.
K Less than.

07364203 OVERFLOW CREEK NEAR BONITA, LA.

LOCATION.--Lat 32°59'02", long 91°42'06", in SW¼NE¼ sec.13, T.23 N., R.7 E., Morehouse Parish, at bridge on Louisiana State Highway 834, 4.3 miles northwest of Bonita.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 20, 1970	15.	1620.	50.0	6.4	6.80	-	13.0	0.34	0.370	266.
NOV. 17......	5.	-	-	-	-	-	6.5	-	-	-
DEC. 21......	13.	-	-	-	-	-	5.5	-	-	-
JAN. 26, 1971	9.	820.	100.0	4.0	4.40	0.3	6.0	0.44	0.420	137.
FEB. 23......	7.	-	-	-	-	-	4.0	-	-	-
MAR. 16......	14.	-	-	-	-	-	4.0	-	-	-
APR. 27......	22.	1600.	20.0	5.6	2.90	1.K	4.5	0.25	0.330	148.
MAY 25......	19.	-	-	-	-	-	4.0	-	-	-
JUNE 15......	25.	-	-	-	-	-	6.0	-	-	-
JULY 27......	23.	1330.	20.0K	5.6	-	1.K	12.5	1.40	0.250	598.
AUG. 24......	25.	-	-	-	-	-	10.0	-	-	-
SEP. 28......	21.	-	-	-	-	-	16.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 20, 1970	44.	16.0	17.	89.	6.90	160.	110.	2.5	7.5
NOV. 17......	-	-	11.	48.	6.60	-	25.K	2.0	9.3
DEC. 21......	-	-	12.	47.	6.00	-	50.	3.0	6.6
JAN. 26, 1971	28.	10.0	18.	61.	6.20	160.	25.	1.2	7.2
FEB. 23......	-	-	18.	35.	6.60	-	100.	1.8	8.0
MAR. 16......	-	-	-	57.	6.60	-	-	-	-
MAR. 17......	-	-	25.	-	-	-	60.	1.7	5.7
APR. 27......	26.	14.0	26.	75.	6.90	160.	50.	1.4	5.2
MAY 25......	-	-	20.	80.	6.70	-	25.	1.7	4.8
JUNE 15......	-	-	31.	90.	6.90	-	60.	6.0	[illegible]
JULY 27......	28.	14.0	11.	62.	6.80	-	140.	2.8	5.0
AUG. 24......	-	-	30.	109.	6.50	-	25.K	0.9	3.3
SEP. 28......	-	-	116.	296.	6.90	-	45.	-	-

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 20, 1970	8000.	1800.	5400.
JAN. 26, 1971	200.	72.	76.
APR. 27......	6000.	160.	400.
JULY 27......	9300.	5000.	4000.

K Less than.

07364300 CHEMIN-A-HAUT BAYOU NEAR BEEKMAN, LA.

LOCATION.--Lat 32°58'55", long 91°48'20", in SE¼ sec.13, T.23 N., R.6 E., Morehouse Parish, near center of span on downstream side of bridge on Parish road, 1.9 miles downstream from Arkansas-Louisiana State line, and 6 miles northeast of Beekman.

DRAINAGE AREA.--271 sq mi.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 20, 1970	14.	1010.	160.0	16.8	5.30	4.5	22.0	0.20	0.350	152.
NOV. 17......	6.	-	-	-	-	-	7.5	-	-	-
DEC. 21......	11.	-	-	-	-	-	4.5	-	-	-
JAN. 26, 1971	10.	720.	0	4.0	2.90	4.3	5.5	0.42	0.170	130.
FEB. 23......	8.	-	-	-	-	-	6.0	-	-	-
MAR. 16......	14.	-	-	-	-	-	4.0	-	-	-
APR. 27......	19.	1280.	30.0	8.0	4.80	2.0	4.5	0.40	0.230	134.
MAY 25......	19.	-	-	-	-	-	5.5	-	-	-
JUNE 15......	29.	-	-	-	-	-	12.0	-	-	-
JULY 27......	23.	600.	20.0K	9.6	-	1.K	125.0	0.40	0.200	247.
AUG. 24......	25.	-	-	-	-	-	15.0	-	-	-
SEP. 28......	21.	-	-	-	-	-	14.5	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 20, 1970	64.	42.0	61.	182.	7.20	70.	25.	1.0	6.8
NOV. 17......	-	-	20.	55.	6.40	-	25.K	1.8	8.3
DEC. 21......	-	-	19.	47.	6.30	-	25.	3.6	7.6
JAN. 26, 1971	37.	10.0	17.	56.	6.10	120.	25.	1.4	7.6
FEB. 23......	-	-	23.	50.	6.70	-	50.	2.0	7.5
MAR. 16......	-	-	15.	57.	6.70	-	40.	1.7	8.4
APR. 27......	40.	20.0	28.	78.	6.80	140.	35.	3.6	4.3
MAY 25......	-	-	28.	80.	6.40	-	35.	2.9	4.9
JUNE 15......	-	-	99.	187.	7.00	-	25.	4.5	3.5
JULY 27......	40.	24.0	49.	1295.	7.40	-	30.	2.2	49.0
AUG. 24......	-	-	77.	193.	7.10	-	25.K	1.1	3.3
SEP. 28......	-	-	48.	198.	6.70	-	25.K	-	-

DATE	31501 COLIFORM IMMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STRCOCCI M-ENTCCS MF/100ML
OCT. 20, 1970	4700.	790.	330.
JAN. 26, 1971	930.	280.	270.
APR. 27......	3700.	170.	120.
JULY 27......	6000.	450.	1400.

K Less than.

07364600 BAYOU DE LOUTRE NEAR EL DORADO, ARK.

LOCATION.--Lat 33°05'55", long 92°35'32", in SE¼NW¼ sec.6, T.19 S., R.14 W., Union County, at bridge on county road 0.8 mile downstream from Highbank Creek, and 8.5 miles southeast of El Dorado.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 19, 1970	15.	-	-	-	-	-	1850.0	-	-	-
NOV. 16......	6.	40.	0	64.0	10.90	36.4	500.0	0.63	0.120	1010.
DEC. 21......	13.	-	-	-	-	-	530.0	-	-	-
JAN. 25, 1971	13.	-	-	-	-	-	1030.0	-	-	-
FEB. 22......	8.	750.	26.0	62.4	11.40	26.7	490.0	0.27	0.270	1043.
MAR. 15......	19.	-	-	-	-	-	304.0	-	-	-
APR. 27......	19.	-	-	-	-	-	775.0	-	-	-
MAY 24......	23.	100.	50.0	114.0	16.00	53.4	990.0	0.60	0.750	2210.
JUNE 14......	28.	-	-	-	-	-	1300.0	-	-	-
JULY 26......	25.	510.	20.0K	30.4	-	20.0	244.0	0.80	0.400	594.
AUG. 22......	30.	700.	800.0	104.0	21.40	37.5	875.0	2.20	0.230	2009.
SEP. 27......	25.	-	-	-	-	-	1220.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 19, 1970	-	-	38.	4329.	6.30	-	25.K	4.5	4.6
NOV. 16......	205.	160.0	10.	1370.	6.40	40.	25.K	1.7	9.0
DEC. 21......	-	-	24.	2361.	6.50	-	25.K	5.0L	5.1
JAN. 25, 1971	-	-	40.	3012.	6.40	-	25.K	2.8	5.7
FEB. 22......	203.	156.0	21.	1587.	6.40	60.	25.K	1.0	7.3
MAR. 15......	-	-	13.	1125.	6.40	-	25.K	2.0	5.3
APR. 27......	-	-	73.	2590.	7.00	-	40.	8.0	2.3
MAY 24......	358.	284.0	141.	3125.	7.40	40.	25.	3.9	2.2
JUNE 14......	-	-	126.	4545.	7.30	-	25.K	9.9	1.8
JULY 26......	112.	76.0	13.	1000.	6.40	-	30.	5.0	2.7
AUG. 22......	348.	260.0	130.	2941.	7.20	30.	25.K	1.9	5.0
SEP. 27......	-	-	70.	5000.	6.70	-	25.K	-	-

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
NOV. 16, 1970	3300.	550.	520.
FEB. 22, 1971	420.	210.	280.
MAY 24......	540.	500.	33.
JULY 26......	3900.	1800.	180.

K Less than.
L Greater than.

07364700 BAYOU DE LOUTRE NEAR LARAN, LA.

LOCATION.--Lat 32°57'20", long 92°29'59", in NW¼ sec.29, T.23 N., R.1 W., Union Parish, at gaging station at bridge 1.5 miles southwest of Laran, 1.5 miles downstream from Lion Creek, and 3.0 miles upstream from bridge on Louisiana State Highway 550.

DRAINAGE AREA.--141 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1958, October 1967 to September 1971.
Water temperature: October 1967 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum daily, 4,020 micromhos June 27; minimum daily, 343 micromhos Aug. 1.
Water temperature: Maximum daily, 32°C June 12, 14-16, 22, 23; minimum daily, 3°C Jan. 6, 7, 20.

Period of record:
Specific conductance: Maximum daily, 11,600 micromhos July 24, 1969; minimum daily, 115 micromhos Jan. 11, 1968.
Water temperature: Maximum, 32°C June 12, 14-16, 1971; minimum, 1°C Jan. 11-13, Feb. 22, 1968, Jan. 10, 20, Feb. 4, 1970.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT. 15...	134	12	20	64	13	250	7.0	27	66	484
NOV. 16...	190	10	20	49	9.6	164	6.2	12	33	340
DEC. 07...	57	9.8	20	107	19	375	10	68	66	767
JAN. 19...	62	10	20	97	21	372	8.4	36	41	764
APR. 13...	62	1.8	0	53	11	230	3.2	57	27	446
JUNE 01...	23	9.7	10	80	12	372	6.9	75	43	680
JULY 15...	10	12	10	74	12	310	5.9	78	30	579
AUG. 12...	90	12	20	39	6.5	132	2.0	45	8.0	260
SEP. 29...	26	9.0	50	78	17	373	5.1	68	51	695

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 15...	.2	--	1090	897	212	190	1760	6.2	18.0	15
NOV. 16...	.2	--	756	618	162	152	1230	6.0	7.0	15
DEC. 07...	.4	--	1690	1380	345	305	2670	5.7	14.0	15
JAN. 19...	.4	--	1640	1330	328	298	2600	6.5	6.0	20
APR. 13...	.5	.4	970	801	176	129	1610	6.0	20.0	25
JUNE 01...	.4	.3	1410	1240	249	187	2370	6.3	11.0	15
JULY 15...	.4	.4	1260	1060	235	171	2070	6.2	26.0	20
AUG. 12...	.4	.6	608	483	124	87	962	6.1	27.0	25
SEP. 29...	.3	.4	1530	1260	266	217	2470	6.6	24.0	20

07364700 BAYOU DE LOUTRE NEAR LARAN, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,810	2,680	2,600	1,640	2,920	1,300	873	1,310	e2,370	3,220	343	3,330
2	2,870	2,620	2,990	1,630	3,230	1,300	913	1,340	2,070	2,680	560	3,330
3	3,300	2,910	3,000	1,630	3,360	1,370	944	1,420	2,860	2,610	381	3,210
4	3,510	3,160	3,080	1,630	3,390	1,380	837	1,600	3,320	1,600	567	3,280
5	3,750	3,160	3,100	1,630	3,300	1,750	1,070	1,620	3,300	1,600	348	3,310
6	3,760	3,380	3,110	1,900	3,460	1,930	1,080	1,630	3,100	1,180	792	3,321
7	3,910	3,400	3,090	1,910	3,510	1,950	1,280	1,440	3,070	1,170	791	3,290
8	3,620	2,520	3,440	1,860	3,180	1,960	1,250	1,000	3,190	1,240	872	3,180
9	3,060	2,230	3,400	1,860	3,180	1,960	1,360	1,040	3,380	1,470	1,120	3,000
10	3,230	2,360	3,360	1,960	2,900	1,080	1,360	901	2,280	1,670	1,120	2,620
11	2,260	1,980	3,260	2,070	2,700	1,680	1,440	1,050	2,220	1,790	984	2,340
12	2,010	1,970	2,970	2,350	1,560	1,460	1,640	960	2,880	1,770	1,220	2,390
13	2,020	2,050	2,960	2,320 e	1,550	1,870	1,870	566	2,910	1,850	1,210	2,360
14	1,790	2,980	2,960	2,420	1,670	e1,090	863	520	3,240	3,370	1,360	2,420
15	e1,760	2,910	2,960	2,380	1,600	e1,100	876	880	3,200	2,040	1,370	2,550
16	1,970	1,210	2,090	2,490	1,760	1,110	2,200	887	3,340	2,250	1,470	2,370
17	1,870	1,180	2,900	2,500	1,730	966	[illegible]	984	3,370	2,340	1,640	3,340
18	2,170	1,280	887	2,670	1,760	888	2,400	973	3,400	2,760	1,080	3,380
19	2,190	1,290	817	2,660	1,510	999	2,450	1,090	3,380	2,980	2,120	3,840
20	2,120	1,370	601	2,600	1,370	1,340	2,480	1,220	2,630	3,130	2,390	3,940
21	2,110	1,370	653	2,980	1,280	1,130	2,380	1,370	2,610	3,130	e2,330	1,080
22	2,860	1,860	505	2,850	1,010	1,070	1,500	1,730	3,000	2,100	2,740	1,030
23	2,080	1,850	537	2,960	1,290	1,230	471	1,730	3,010	2,340	2,930	774
24	2,620	2,090	1,020	2,370	1,240	1,230	479	1,940	3,470	1,010	3,030	784
25	2,460	2,420	1,030	2,180	1,280	1,330	616	2,270	3,670	909	2,030	1,320
26	2,430	2,620	1,910	2,580	1,350	1,330	427	2,230	3,750	770	1,850	1,327
27	2,230	2,790	1,510	2,640	1,370	1,430	1,180	2,360	4,020	784	1,840	2,200
28	2,210	3,160	2,250	2,400	1,280	1,610	1,360	2,300	3,770	824	1,840	2,210
29	2,340	3,160	2,260	2,300	--	1,360	1,320	2,170	3,980	804	1,940	2,280
30	2,330	2,830	1,730	2,380	--	1,350	1,370	2,130	4,370	470	2,310	e2,740
31	2,680	--	e1,680	2,340	--	1,110	--	2,090	--	473	2,320	--
AVERAGE	2,620	2,300	2,210	2,300	2,150	1,380	1,370	1,480	3,090	1,841	1,560	2,600

e Estimated

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	12	14	7	9	13	17	20	25	29	23	25
2	21	12	16	7	5	13	8	22	26	29	22	26
3	21	9	16	10	8	11	19	18	26	29	23	26
4	21	8	14	8	11	8	20	16	29	28	23	26
5	21	8	14	6	9	9	17	19	28	29	23	26
6	19	11	14	3	9	12	14	21	27	29	24	26
7	21	11	12	3	9	12	13	21	28	27	24	25
8	20	11	10	6	8	10	16	21	29	28	24	27
9	18	11	9	6	7	11	17	22	29	30	24	28
10	17	11	8	8	6	12	18	22	30	28	24	26
11	17	10	7	8	7	14	18	21	31	30	25	26
12	17	10	5	11	8	16	17	17	32	31	25	26
13	16	10	6	13	10	18	20	17	31	29	26	25
14	16	8	7	10	10	17	19	17	32	29	26	25
15	e16	6	8	13	10	16	21	18	32	29	26	25
16	16	7	9	12	11	16	19	19	32	28	26	24
17	14	7	7	10	12	15	21	19	31	27	26	24
18	14	8	8	9	13	14	24	21	31	28	25	24
19	16	8	9	9	11	17	22	22	30	27	26	22
20	16	9	12	3	13	16	23	23	31	27	27	21
21	14	11	14	5	14	13	21	22	31	25	27	20
22	16	11	13	6	11	13	21	22	32	25	28	21
23	17	7	13	8	10	12	21	23	32	24	27	20
24	18	6	10	9	8	11	22	24	30	23	26	20
25	19	10	6	12	11	10	21	23	31	23	21	22
26	17	13	5	11	16	12	19	23	31	23	26	23
27	16	15	6	9	14	13	22	23	31	23	26	24
28	16	20	8	6	14	14	22	22	31	23	25	24
29	15	15	10	9	--	14	21	22	28	23	25	24
30	13	16	10	10	--	15	20	22	20	23	25	e24
31	13	--	9	12	--	15	--	23	--	23	25	--
AVERAGE	17	11	10	8	10	13	19	21	30	26	25	24

e Estimated

07365800 CORNIE BAYOU NEAR THREE CREEKS, ARK.

LOCATION.--Lat 33°02'21", long 92°56'19", in SW¼NW¼ sec.36, T.19 S., R.18 W., Union County, at gaging station on left bank at downstream side of bridge on State Highway 15, 3.4 miles downstream from Pidgeon Roost Creek, and 6.0 miles southwest of town of Three Creeks.

DRAINAGE AREA.--180 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1952 to September 1955.
Chemical and biological analyses: October 1970 to September 1971.
Specific conductance, chloride, and pH: May 1950 to September 1952, February 1956 to September 1962.
Water temperature: May 1950 to September 1955, February 1956 to July 1962.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 19, 1970	13.	-	-	-	-	-	50.0	-	-	-
NOV. 16......	7.	0	350.0	62.4	14.30	4.7	345.0	.2	.120	761.
DEC. 21......	12.	-	-	-	-	-	220.0	-	-	-
JAN. 25, 1971	12.	-	-	-	-	-	180.0	-	-	-
FEB. 22......	3.	930.	1400.0	28.4	7.50	0.5	148.0	.016	.120	448.
MAR. 19......	10.	-	-	-	-	-	110.0	-	-	-
APR. 27......	17.	-	-	-	-	-	164.0	-	-	-
MAY 24......	21.	700.	2300.0	47.2	9.00	8.0	280.0	.24	.050	588.
JUNE 14......	26.	-	-	-	-	-	262.0	-	-	-
JULY 26......	24.	-	-	-	-	-	132.0	-	-	-
AUG. 22......	27.	-	-	72.0	17.20	6.3	440.0	.35	.020	894.
SEP. 27......	25.	-	-	-	-	-	99.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
NOV. 16, 1970	215.	156.0	7.	787.	6.90	22.	25.K	4.4	9.6
FEB. 22, 1971	97.	66.0	3.	419.	3.50	60.	30.	1.5	6.7
MAY 24......	155.	118.0	4.	867.	5.50	10.	25.K	1.5	3.4
JULY 26......	-	-	-	400.	-	-	-	-	-
AUG. 22......	250.	180.0	-	1250.	4.10	0	25.K	1.1	3.4

DATE	31501 COLIFORM IMMED.M-ENDO MF/100ML	31616 FEC COLI MF-MFC.45 MF/100ML	31679 STRPCOCCI [illegible] MF/100ML
NOV. 16, 1970	1900.	150.	390.
FEB. 22, 1971	690.	560.	1420.
MAY 24......	440.	7.	30.
AUG. 22......	6000.	4.	32.

K Less than.

07365860 LITTLE CORNIE CREEK NEAR GORDON, LA.

LOCATION.--Lat 33°00'42", long 92°58'24", in NW¼SE¼ sec.3, T.23 N., R.6 W., Claiborne Parish, at bridge on Louisiana State Highway 161, 0.4 mile south of Arkansas-Louisiana State line, and 3.9 miles northeast of Gordon.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGANESE MN UG/L	00915 CALCIUM CA MG/L	00925 MAGNESIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00665 T PHOS PO4 MG/L	00600 NITROGEN TOTAL MG/L
OCT. 19, 1970	13.	-	-	-	-	-	170.0	-	-	-
NOV. 16.......	6.	340.	[illegible]	12.7	4.40	7.0	93.0	.07	.180	[illegible]
DEC. 21.......	12.	-	-	-	-	-	91.0	-	-	-
JAN. 25, 1971	12.	-	-	-	-	-	81.0	-	-	-
FEB. 22.......	9.	1150.	1100.	5.0	4.40	5.7	43.0	.420	.180	1.99
MAR. 15.......	16.	-	-	-	-	-	17.0	-	-	-
APR. 27.......	18.	-	-	-	-	-	75.0	-	-	-
MAY 24.......	21.	1100.	71.20	5.0	1.50	2.5	35.0	.030	.100	.66
JUNE 14.......	24.	-	-	-	-	-	46.0	-	-	-
JULY 26.......	23.	-	-	-	-	-	122.0	-	-	-
AUG. 22.......	27.	2900.	450.0	9.0	2.40	1.0	40.5	.030	.060	.22
SEP. 27.......	29.	-	-	-	-	-	143.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH SU	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
NOV. 16, 1970	50.	32.0	17.	247.	6.40	70.	25.6	1.9	7.3
FEB. 22, 1971	37.	16.0	11.	140.	7.00	110.	25.6	.9	8.1
MAY 24.......	30.	24.0	17.	154.	6.50	70.	35.	1.9	8.0
JULY 26.......	-	-	-	273.	-	-	-	-	-
AUG. 22.......	34.	24.0	11.	154.	6.00	9.0	25.6	.7	6.0

DATE	31501 COLIFORM IMMED MF/100ML	31616 FEC COLI MFMFC44.5 MF/100ML	31679 STREPTOCOCCI MF/100ML
NOV. 16, 1970	322.	380.	900.
FEB. 22, 1971	460.	140.	700.
MAY 24.......	23000.	16000.K	83.
AUG. 22.......	19000.	39.	210.

K Less than.

07365900 THREE CREEKS NEAR THREE CREEKS, ARK.

LOCATION.--Lat 33°04'01", long 92°53'02", in NE¼NW¼ sec.20, T.19 S., R.17 W., Union County, at gaging station near right bank on downstream side of bridge on State Highway 15, 2.2 miles southwest of town of Three Creeks, and 1.8 miles upstream from Ash Branch.

DRAINAGE AREA.--50.3 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1952 to September 1955. Chemical and biological analyses: October 1970 to September 1971. Specific conductance, chloride and pH: May 1950 to September 1952, February 1956 to September 1962.
Water temperature: May 1950 to September 1955, February 1956 to September 1962.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 19, 1970	13.	-	-	-	-	-	125.0	-	-	-
NOV. 16......	6.	380.	3100.0	90.4	18.00	6.7	530.0	0.01	0.050	1237.
DEC. 21......	13.	-	-	-	-	-	180.0	-	-	-
JAN. 25, 1971	12.	-	-	-	-	-	205.0	-	-	-
FEB. 22......	8.	1110.	1490.0	31.2	9.00	4.7	184.0	0.09	0.120	486.
MAR. 15......	16.	-	-	-	-	-	130.0	-	-	-
APR. 27......	16.	-	-	-	-	-	202.0	-	-	-
MAY 24......	21.	600.	800.0	48.0	9.70	5.0	305.0	0.25	0.050	828.
JUNE 14......	25.	-	-	-	-	-	175.0	-	-	-
JULY 26......	24.	-	-	-	-	-	1034.0	-	-	-
AUG. 22......	27.	3000.	2000.0	40.8	9.70	7.0	175.0	0.20	0.040	669.
SEP. 27......	23.	-	-	-	-	-	99.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
NOV. 16, 1970	300.	226.0	5.	1351.	5.30	15.	25.K	1.3	9.4
FEB. 22, 1971	115.	78.0	4.	532.	5.80	60.	25.K	0.9	7.6
MAY 24......	160.	120.0	6.	893.	6.10	30.	25.K	0.5	4.3
JULY 26......	-	-	-	5000.	-	-	-	-	-
AUG. 22......	142.	102.0	0	855.	4.80	30.	25.K	0.5	2.5

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
NOV. 16, 1970	530.	160.	310.
FEB. 22, 1971	250.	220.	390.
MAY 24......	980.	80.	24.
AUG. 22......	1500.	40.	330.

K Less than.

07366000 CORNEY BAYOU NEAR LILLIE, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	558	96	451	444	628	661	397	246	427	479	492	509
2	556	99	451	443	648	662	426	262	425	486	518	567
3	555	86	458	448	648	664	427	262	433	480	398	572
4	554	87	459	457	626	662	394	263	440	480	399	515
5	554	86	456	453	626	661	395	214	436	481	433	593
6	552	87	453	453	626	757	481	225	438	481	357	593
7	554	88	461	459	647	692	479	234	445	481	356	593
8	554	92	454	458	649	634	470	235	445	494	486	591
9	533	81	456	460	622	643	467	240	443	497	487	e600
10	527	81	454	460	--	552	464	245	439	493	487	609
11	526	77	454	480	--	552	462	246	451	505	493	608
12	468	74	454	479	--	552	481	244	444	505	494	603
13	471	76	455	465	--	548	483	250	454	503	506	625
14	427	75	457	459	622	550	485	249	452	499	506	634
15	419	89	446	462	638	526	485	427	442	515	503	626
16	381	91	452	452	640	528	482	430	446	485	506	609
17	380	--	438	449	670	595	485	402	449	488	497	612
18	366	--	438	467	670	595	483	403	455	488	496	625
19	353	--	443	550	670	383	e475	408	455	446	506	626
20	277	--	442	554	668	382	e470	409	454	448	505	621
21	270	--	370	564	665	385	462	436	456	415	506	619
22	261	--	224	474	700	382	461	429	470	448	493	619
23	261	--	223	473	765	382	523	419	469	450	546	482
24	e240	440	442	431	765	383	523	423	469	449	547	351
25	219	451	441	563	764	376	525	421	467	446	547	596
26	218	454	474	533	767	376	375	418	475	442	548	593
27	179	454	474	533	--	376	e325	417	477	442	544	608
28	130	455	497	537	--	379	270	419	464	443	531	610
29	131	442	472	499	--	372	269	426	477	444	540	610
30	100	443	449	503	--	362	248	426	477	442	506	608
31	100	--	452	500	--	367	--	425	--	489	538	--
AVERAGE	377	--	437	483	--	516	439	340	452	471	493	567

e Estimated

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	12	17	11	10	10	14	19	23	28	e27	26
2	24	15	17	12	10	9	14	18	23	28	27	26
3	24	15	15	12	10	8	14	18	24	28	27	26
4	24	16	15	10	10	8	13	19	24	28	27	27
5	23	16	15	9	10	10	14	20	24	28	27	27
6	21	17	12	9	9	11	14	e19	24	28	28	28
7	22	14	15	8	9	12	14	19	25	28	28	28
8	21	13	12	6	9	11	15	e19	27	28	28	28
9	18	12	12	3	10	11	16	e20	29	28	28	e28
10	19	12	10	6	--	12	15	e20	24	28	28	28
11	18	12	10	9	--	12	15	20	28	28	28	28
12	18	11	10	10	--	12	16	20	28	28	26	28
13	17	11	10	10	--	13	16	18	29	28	28	28
14	17	11	9	10	8	15	16	19	29	28	28	28
15	17	10	9	11	10	18	16	20	29	28	28	28
16	17	9	9	10	10	19	17	21	28	28	28	27
17	17	--	e9	10	11	16	19	22	29	28	28	27
18	16	--	e10	9	12	16	19	22	29	28	28	26
19	17	--	10	10	13	12	e20	23	29	28	28	26
20	17	--	10	10	14	12	e21	23	29	29	28	26
21	17	--	10	10	14	16	22	23	29	29	28	24
22	17	--	10	11	12	15	21	23	29	28	28	22
23	17	--	10	11	12	14	20	22	29	28	27	22
24	e17	8	10	11	13	12	20	22	29	26	27	e24
25	17	9	10	10	13	12	21	23	29	25	27	25
26	17	10	10	10	13	12	22	24	30	26	27	24
27	18	12	10	11	--	13	e22	24	30	26	27	24
28	16	12	10	10	--	14	22	23	29	27	26	24
29	15	12	10	10	--	15	21	23	28	27	26	25
30	16	12	10	10	--	16	19	23	28	27	27	25
31	13	--	10	9	--	16	e19	23	--	e28	27	--
AVERAGE	18	--	11	10	--	13	18	21	27	28	27	26

e Estimated

07366000 CORNEY BAYOU NEAR LILLIE, LA.

LOCATION.--Lat 32°53'15", long 92°39'25", Union Parish, at bridge on U.S. Highway 167, 3.0 miles south of Lillie.

DRAINAGE AREA.--462 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1957, October 1959 to September 1960, October 1967 to September 1971.
Water temperature: October 1967 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum daily recorded, 767 micromhos Feb. 2; minimum daily, 74 micromhos Nov. 12.
Water temperature: Maximum, 30°C June 26, 27; minimum, 3°C Jan. 9.

Period of record:
Specific conductance (1967-71): Maximum daily, 834 micromhos Mar. 3, 4, 1968; minimum daily, 74 micromhos Nov. 12, 1970.
Water temperature: Maximum, 30°C June 16, 17, 19, Aug. 11, 1968, July 14, many days in Aug. 1970, and June 26, 27, 1971; minimum, 2°C Jan. 14, 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.										
15...	1.8	2.9	0	19	3.1	46	3.1	17	3.8	100
NOV.										
19...	4.0	10	60	5.2	1.0	7.0	2.1	12	8.2	12
DEC.										
07...	28	27	400	22	3.7	52	4.0	4	6.4	123
JAN.										
25...	61	9.1	20	26	6.6	56	2.6	4	6.4	146
MAR.										
03...	202	7.6	10	31	6.1	77	3.1	6	27	171
APR.										
19...	82	7.1	20	25	4.3	55	2.3	8	8.6	131
JUNE										
01...	75	10	20	24	3.9	50	2.1	13	4.8	121
JULY										
15...	3.2	5.2	10	27	5.0	58	2.3	14	4.0	140
AUG.										
12...	365	6.5	10	24	5.8	56	2.5	9	4.2	140
SEP.										
29...	55	7.3	90	31	5.5	72	3.2	10	3.6	170

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.										
15...	.1	.2	232	186	60	46	400	7.5	17.0	5
NOV.										
19...	.0	.3	63	52	17	7	80	7.3	9.0	25
DEC.										
07...	.1	.1	296	240	70	67	460	6.9	13.0	5
JAN.										
25...	.0	.1	287	255	92	89	499	5.4	6.0	5
MAR.										
03...	.1	.1	442	326	102	97	612	6.0	9.0	20
APR.										
19...	.1	.0	--	237	80	73	479	6.0	20.0	15
JUNE										
01...	.1	.2	306	222	76	65	425	5.4	21.0	5
JULY										
15...	.1	.2	360	249	88	77	498	5.8	25.0	5
AUG.										
12...	.0	.1	374	241	84	77	487	5.5	26.0	0
SEP.										
29...	.1	.3	427	298	100	92	608	5.8	25.0	15

07366000 CORNEY BAYOU NEAR LILLIE, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	558	96	451	444	628	661	387	246	427	479	482	509
2	556	99	451	443	648	562	426	282	425	486	518	567
3	555	96	458	448	648	666	427	262	433	480	398	572
4	554	87	459	457	626	662	396	263	440	480	399	513
5	554	86	456	453	626	661	395	214	426	481	451	593
6	552	87	453	453	626	757	481	235	438	481	397	593
7	554	88	461	459	647	692	479	236	445	481	396	593
8	556	92	456	458	649	634	470	235	445	496	486	591
9	533	81	456	460	622	643	467	240	443	497	487	e600
10	527	81	456	460	--	552	466	245	439	493	487	609
11	526	77	456	480	--	552	482	246	451	505	493	608
12	468	74	456	479	--	552	481	244	446	505	496	603
13	471	76	455	465	--	558	483	250	456	503	506	625
14	427	73	457	459	622	530	485	249	452	499	506	626
15	419	89	446	462	638	526	485	427	442	515	503	626
16	381	91	452	452	640	528	482	430	446	485	506	609
17	380	--	438	449	670	595	485	402	449	488	497	612
18	366	--	438	467	670	595	483	403	455	488	496	625
19	353	--	443	550	670	383	e475	408	455	466	506	626
20	277	--	442	556	668	382	e470	409	456	448	505	621
21	270	--	370	564	665	385	462	426	456	415	506	619
22	261	--	226	476	700	382	461	429	470	448	493	619
23	261	--	223	473	765	382	523	419	469	430	546	482
24	e240	440	442	431	765	383	523	423	469	449	547	351
25	219	451	441	563	766	376	525	421	467	446	547	596
26	218	456	476	533	767	376	375	418	475	442	548	593
27	179	456	476	533	--	376	e325	417	477	442	546	608
28	130	455	497	537	--	379	270	419	464	443	531	610
29	131	442	472	499	--	372	269	426	477	446	540	610
30	100	443	449	503	--	362	248	426	477	442	506	608
31	100	--	452	500	--	367	--	425	--	489	538	--
AVERAGE	377	--	437	483	--	514	439	340	452	471	493	587

e Estimated

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	12	17	11	10	10	14	19	23	28	e27	26
2	24	15	17	12	10	9	14	18	23	28	27	26
3	26	15	15	12	10	8	14	18	26	28	27	26
4	26	16	15	10	10	8	13	19	26	28	27	27
5	23	16	15	9	10	10	14	20	24	28	27	27
6	21	17	12	9	9	11	15	e19	26	28	[illegible]	28
7	22	14	15	8	9	12	14	19	25	28	28	28
8	21	13	12	6	9	11	15	e19	27	28	28	28
9	18	12	12	3	10	11	16	e20	[illegible]	28	28	e28
10	19	12	10	6	--	12	15	e20	26	28	28	28
11	18	12	10	9	--	12	15	20	28	28	28	28
12	18	11	10	10	--	12	16	20	28	28	26	28
13	17	11	10	10	--	13	16	18	29	28	28	28
14	17	11	9	10	8	15	16	19	29	28	28	28
15	17	10	9	11	10	18	16	20	29	28	28	28
16	17	9	9	10	10	19	17	21	28	28	28	27
17	17	--	e9	10	11	16	18	22	29	28	28	27
18	16	--	e10	9	12	16	19	22	29	28	28	26
19	17	--	10	10	13	12	e20	23	29	28	28	26
20	17	--	10	10	14	12	e21	23	29	29	28	26
21	17	--	10	10	14	14	22	23	29	29	28	26
22	17	--	10	11	12	15	21	23	29	28	28	22
23	17	--	10	11	12	14	20	22	29	28	27	22
24	e17	6	10	11	13	12	20	22	29	26	27	e26
25	17	6	10	10	13	12	21	23	29	25	27	25
26	17	10	10	10	13	12	22	24	30	26	27	26
27	18	12	10	11	--	13	e22	24	30	26	27	24
28	16	12	10	10	--	14	22	23	29	27	26	24
29	15	12	10	10	--	15	21	23	28	27	26	25
30	16	12	10	10	--	16	19	23	28	27	27	25
31	13	--	10	9	--	16	e19	23	--	e28	27	--
AVERAGE	18	--	11	10	--	13	18	21	27	28	27	26

e Estimated

07366105 LITTLE CORNIE BAYOU EAST OF JUNCTION CITY, ARK.

LOCATION.--Lat 33°01'15", long 92°42'00", in SW¼SW¼ sec 31, T.19 S., R.15 W., Union County, at bridge on county road, 0.5 mile north of Arkansas-Louisiana State line, and 1.5 miles northeast of Junction City.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 19, 1970	14.	-	-	-	-	-	170.0	-	-	-
NOV. 16.......	7.	260.	6	24.8	7.50	9.8	185.0	0.07	0.170	414.
DEC. 21.......	11.	-	-	-	-	-	37.5	-	-	-
JAN. 26, 1971	13.	-	-	-	-	-	150.0	-	-	-
FEB. 22.......	10.	890.	350.0	18.4	5.30	5.8	115.0	0.28	0.080	297.
MAR. 15.......	18.	-	-	-	-	-	53.0	-	-	-
APR. 27.......	17.	-	-	-	-	-	115.0	-	-	-
MAY 24.......	21.	1200.	93.0	17.6	3.90	2.5	87.0	0.30	0.070	380.
JUNE 14.......	26.	-	-	-	-	-	96.0	-	-	-
JULY 26.......	29.	-	-	-	-	-	-	-	-	-
AUG. 22.......	26.	1900.	400.0	9.6	3.40	7.0	53.0	0.37	0.080	157.
SEP. 27.......	23.	-	-	-	-	-	77.0	-	-	-

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH SU	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 19, 1970	-	-	12.	439.	6.60	-	25.K	0.9	8.4
NOV. 16.......	93.	62.0	5.	383.	6.10	60.	25.	2.2	8.8
DEC. 21.......	-	-	11.	140.	6.00	-	25.K	3.2	7.2
JAN. 26, 1971	-	-	14.	408.	6.10	-	25.K	0.9	6.5
FEB. 22.......	68.	46.0	19.	279.	6.30	80.	25.K	1.3	7.0
MAR. 15.......	-	-	7.	167.	5.80	-	25.K	1.5	4.7
APR. 27.......	-	-	12.	423.	6.10	-	25.K	1.1	9.0
MAY 24.......	63.	44.0	16.	893.	6.50	60.	35.	0.7	9.0
JUNE 14.......	-	-	48.	413.	7.30	-	35.	1.4	3.8
JULY 26.......	-	-	5.	-	6.70	-	35.	2.4	4.9
AUG. 22.......	39.	24.0	11.	204.	6.00	20.	25.K	9.0	5.0
SEP. 27.......	-	-	23.	469.	5.30	-	25.K	-	-

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI MENTCCS MF/100ML
NOV. 16, 1970	1600.	290.	490.
FEB. 22, 1971	490.	200.	570.
MAY 24.......	9000.	260.	110.
AUG. 22.......	12000.	150.	500.

K Less than.

07367684 BOEUF RIVER NEAR INDIAN, ARK.

LOCATION.--Lat 33°03'07", long 91°23'07", in SE¼SW¼ sec.11, T.19 S., R.3 W., Chicot County, at bridge on State Highway 52, 5.5 miles west of Indian.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971 (discontinued).

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 20, 1970	17.	-	-	-	-	-	36.0	-	-	-
NOV. 17......	8.	-	-	-	-	-	19.5	-	-	-
DEC. 22......	12.	2070.	6	12.0	6.30	1.K	14.5	1.42	1.200	427.
JAN. 26, 1971	9.	-	-	-	-	-	9.5	-	-	-
FEB. 23......	9.	-	-	-	-	-	5.5	-	-	-
MAR. 16......	16.	4100.	42.0	11.2	7.30	1.K	6.5	1.25	1.180	891.
APR. 27......	22.	-	-	-	-	-	33.0	-	-	-
MAY 25......	22.	-	-	-	-	-	17.0	-	-	-
JUNE 15......	28.	-	-	-	-	-	55.0	-	-	-
JULY 27......	24.	-	-	-	-	-	22.0	-	-	-
AUG. 24......	27.	-	-	-	-	-	34.0	-	-	-
SEP. 28......	25.	-	-	63.7	72.40	-	43.5	6	-	513.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN. JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 20, 1970	-	-	100.	256.	7.80	-	85.	2.1	5.2
NOV. 17......	-	-	49.	135.	7.40	-	210.	3.0	8.2
DEC. 22......	56.	30.0	41.	139.	6.50	120.	320.	4.8	8.2
JAN. 26, 1971	-	-	33.	69.	6.70	-	1100.	3.6	8.0
FEB. 23......	-	-	43.	82.	7.00	-	1000.	3.2	7.6
MAR. 16......	58.	28.0	43.	111.	7.00	20.	600.	2.7	8.2
APR. 27......	-	-	92.	318.	7.50	-	210.	2.2	4.6
MAY 25......	-	-	74.	213.	7.40	-	240.	4.1	2.9
JUNE 15......	-	-	111.	459.	7.40	-	85.	2.1	4.6
JULY 27......	-	-	41.	-	7.40	-	190.	3.5	4.6
AUG. 24......	-	-	95.	240.	7.20	-	65.	2.6	6.1
SEP. 28......	456.	158.0	219.	844.	7.90	-	25.K	-	-

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STRCOCCI MF-ENTCCS MF/100ML
MAR. 16, 1971	7300.	570.	220.
JUNE 15......	4200.	140.	53.
SEP. 28......	500.	10.K	6.

K Less than.

07367695 LAFOURCHE BAYOU NEAR WILMOT, ARK.

LOCATION.--Lat 33°03'09", long 91°26'47", in SW¼SE¼ sec.9, T.19 S., R.3 W., Chicot County, at bridge on State Highway 52, 8.9 miles east of Wilmot.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971.

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 20, 1970	15.	-	-	-	-	-	16.3	-	-	-
NOV. 17......	8.	-	-	-	-	-	9.5	-	-	-
DEC. 22......	14.	100.	20.0	5.5	4.90	1.K	11.0	.065	1.240	336.
JAN. 26, 1971	12.	-	-	-	-	-	8.0	-	-	-
FEB. 23......	7.	-	-	-	-	-	3.0	-	-	-
MAR. 16......	16.	3300.	20.0	10.4	5.30	1.K	6.5	.470	1.400	303.
APR. 27......	22.	-	-	-	-	-	19.0	-	-	-
MAY 25......	22.	-	-	-	-	-	17.0	-	-	-
JUNE 15......	29.	-	-	-	-	-	125.0	-	-	-
JULY 27......	25.	-	-	-	-	-	-	-	-	-
AUG. 24......	27.	-	-	-	-	-	56.0	-	-	-
SEP. 28......	26.	-	-	76.0	32.00	-	157.0	.010	-	681.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH SU	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 20, 1970	-	-	51.	152.	7.10	-	95.	2.7	9.5
NOV. 17......	-	-	14.	88.	6.90	-	80.	2.8	9.2
DEC. 22......	56.	14.0	41.	79.	6.60	160.	230.	4.6	8.3
JAN. 26, 1971	-	-	39.	91.	6.40	-	600.	4.5	8.8
FEB. 23......	-	-	36.	52.	6.70	-	1000.	3.0	8.6
MAR. 16......	46.	26.0	37.	98.	7.00	240.	340.	2.3	5.0
APR. 27......	-	-	42.	103.	7.20	-	230.	2.0	4.4
MAY 25......	-	-	52.	159.	7.30	-	85.	1.8	4.6
JUNE 15......	-	-	144.	770.	7.60	-	25.K	3.1	7.3
JULY 27......	-	-	40.	641.	7.30	-	170.	2.8	4.6
AUG. 24......	-	-	76.	366.	7.10	-	25.K	1.8	6.2
SEP. 28......	308.	184.0	174.	3448.	7.60	-	25.K	-	-

DATE	31501 COLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
MAR. 16, 1971	4000.	800.	1000.
JUNE 15......	2400.	230.	13.
SEP. 28......	450.	6.	30.

K Less than.

07369684 BAYOU MACON NEAR READLAND, ARK.

LOCATION.--Lat 33°03'14", long 91°14'31", in SW¼SE¼ sec.7, T.19 S., R.1 W., Chicot County, at bridge on State Highway 52, 1.2 miles southwest of Readland.

PERIOD OF RECORD.--Chemical and biological analyses: October 1970 to September 1971 (discontinued).

REMARKS.--Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 20, 1970	17.	-	-	-	-	-	15.0	-	-	-
NOV. 17......	8.	-	-	-	-	-	16.5	-	-	-
DEC. 22......	12.	2710.	0	11.2	5.30	1.K	8.5	1.50	1.100	412.
JAN. 26, 1971	9.	-	-	-	-	-	23.0	-	-	-
FEB. 23......	9.	-	-	-	-	-	8.0	-	-	-
MAR. 16......	13.	2400.	30.0	25.6	10.90	8.0	15.0	0.80	0.960	361.
APR. 27......	21.	-	-	-	-	-	17.0	-	-	-
MAY 25......	21.	-	-	-	-	-	13.0	-	-	-
JUNE 15......	27.	-	-	-	-	-	14.0	-	-	-
JULY 27......	29.	-	-	-	-	-	16.0	-	-	-
AUG. 24......	26.	-	-	-	-	-	20.5	-	-	-
SEP. 28......	29.	-	-	40.0	14.00	-	22.0	0.30	-	289.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 20, 1970	-	-	88.	207.	7.60	-	140.	2.1	6.9
NOV. 17......	-	-	101.	207.	7.60	-	95.	2.3	8.9
DEC. 22......	50.	28.0	37.	103.	6.40	120.	340.	3.8	7.9
JAN. 26, 1971	-	-	133.	297.	7.20	-	220.	4.1	9.8
FEB. 23......	-	-	61.	127.	6.80	-	1000.	2.5	8.6
MAR. 16......	109.	64.0	96.	221.	7.70	120.	210.	1.2	9.0
APR. 27......	-	-	110.	293.	7.80	-	150.	0.8	6.8
MAY 25......	-	-	68.	179.	7.50	-	210.	1.1	5.9
JUNE 15......	-	-	99.	270.	7.80	-	150.	1.0	5.4
JULY 27......	-	-	75.	161.	7.50	-	120.	2.4	5.2
AUG. 24......	-	-	113.	302.	7.20	-	90.	1.0	4.9
SEP. 28......	160.	102.0	148.	400.	7.40	-	60.	-	-

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
MAR. 16, 1971	2600.	250.	450.
JUNE 15......	1000.K	1000.K	120.
SEP. 28......	600.	70.	100.

K Less than.

07369700 BAYOU MACON NEAR KILBOURNE, LA.

LOCATION.--Lat 32°59'39", long 91°15'45", in SW¼SE¼ sec.8, T.23 N., R.12 E., East Carroll-West Carroll Parish line, at gaging station at bridge on Louisiana State Highway 585, 0.8 mile south of Arkansas-Louisiana State line, and 3.0 miles east of Kilbourne.

DRAINAGE AREA.--504 sq mi, arbitrarily determined.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1958, October 1967 to September 1971. Water temperature: October 1967 to September 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.										
14...	850	3.6	480	18	5.4	7.0	4.7	78	13	10
NOV.										
18...	218	8.2	20	35	9.9	14	4.3	146	16	15
DEC.										
08...	--	8.2	0	46	16	20	4.0	212	19	22
JAN.										
21...	175	8.1	20	46	14	19	2.9	193	21	22
MAR.										
09...	355	8.3	20	32	9.7	14	3.2	139	18	16
APR.										
21...	276	12	10	35	9.8	14	2.0	154	17	14
JUNE										
10...	410	7.6	20	27	7.9	10	3.3	115	14	9.7
JULY										
21...	96	14	0	45	12	15	3.4	199	15	15
AUG.										
25...	--	8.9	10	39	12	15	3.3	173	15	18
SEP.										
28...	99	11	40	42	14	20	3.0	192	16	21

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.										
14...	.1	1.5	110	100	67	5	186	7.4	20.0	50
NOV.										
18...	.2	.6	173	175	128	8	316	7.6	10.0	20
DEC.										
08...	.2	.3	240	2	179	5	434	8.1	10.0	5
JAN.										
21...	.2	.1	239	228	174	16	409	7.2	7.0	5
MAR.										
09...	.2	1.4	185	169	120	6	304	7.3	12.0	20
APR.										
21...	.2	.1	183	180	128	2	312	6.1	21.5	10
JUNE										
10...	.2	4.4	173	141	100	6	243	7.1	23.0	30
JULY										
21...	.2	.5	231	218	162	0	388	7.2	27.0	20
AUG.										
25...	.2	.1	198	196	146	4	361	7.7	27.0	15
SEP.										
28...	.2	.3	226	222	162	5	398	6.7	26.0	5

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD WATER-QUALITY STATIONS

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

ST. FRANCIS RIVER BASIN

354235090414300 - BEAR CREEK L NR MARIANNA ARK (LAT 35 42 35 LONG 090 41 43)

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
MAY			
17...	270	20	--
JUNE			
21...	60	33	--
JULY			
19...	E60	<3	--
AUG.			
23...	>320	>170	--

354236090414800 - BEAR CREEK L NR MARIANNA ARK (LAT 35 42 36 LONG 090 41 48)

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
MAY			
17...	E1900	43	--
JUNE			
21...	60	7	--
JULY			
19...	180	E70	--
AUG.			
23...	150	E51	--

354241090413700 - BEAR CREEK L NR MARIANNA ARK (LAT 35 42 41 LONG 090 41 37)

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
MAY			
17...	E2100	60	--
JUNE			
21...	41	36	--
JULY			
19...	140	E60	--
AUG.			
23...	E600	>170	--

MISSISSIPPI RIVER BASIN

343546090364200 - STORM CREEK LAKE NR HELENA ARK (LAT 34 35 46 LONG 090 36 42)

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
MAY			
17...	60	E2	--
JUNE			
21...	E90	1	--
JULY			
19...	160	40	--
AUG.			
23...	46	<1	--

343550090364100 - STORM CREEK LAKE NR HELENA ARK (LAT 34 35 50 LONG 090 36 41)

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
MAY			
17...	E20	E3	--
JUNE			
21...	E10	8	--
JULY			
19...	E20	<3	--
AUG.			
23...	170	E17	--

343550090364600 - STORM CREEK LAKE NR HELENA ARK (LAT 34 35 50 LONG 090 36 46)

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
MAY			
17...	E60	E2	--
JUNE			
21...	160	6	--
JULY			
19...	140	120	--
AUG.			
23...	E70	E8	--

< Less than.
> Greater than.
E Estimated.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

WHITE RIVER BASIN

07048800 RICHLAND CREEK NEAR GOSHEN ARK (LAT 36 06 18 LONG 94 00 26)[a]

DATE	DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMPERATURE (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
NOV. 3...	--	11.3	10.0	120
FEB. 1...	--	--	6.0	150
APR. 5...	--	10.7	12.5	140
SEP. 30...	--	8.4	25.0	270

07049050 WAR EAGLE CREEK AT WAR EAGLE ARK (LAT 36 16 04 LONG 93 56 36)[a]

NOV. 3...	--	11.3	10.0	143
FEB. 1...	--	--	5.0	190
APR. 5...	--	11.0	11.0	183
SEP. 30...	--	8.9	22.0	255

07050500 KINGS RIVER NEAR BERRYVILLE ARK (LAT 36 25 30 LONG 93 37 20)[a]

DEC. 22...	0	11.4	9.6	219
DEC. 22...	3	11.4	9.6	219
MAR. 5...	0	7.2	12.7	--
MAR. 5...	3	7.5	12.0	--
APR. 18...	0	8.2	16.0	260
APR. 18...	3	8.3	16.0	260
JUNE 23...	0	8.6	24.0	400
JUNE 23...	3	11.4	24.0	400
JULY 8...	0	8.7	25.0	270
JULY 8...	3	7.8	26.0	260
AUG. 3...	0	8.7	24.0	--
AUG. 3...	3	9.2	23.5	--

360108092150000 - N SYLAMORE C AB FIFTY SIX ARK (LAT 36 01 08 LONG 092 15 00)

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
MAY 26...	62	1	--
JUNE 25...	170	2	--
JULY 21...	160	E16	--
AUG. 25...	>80	47	--

360108092150001 - N SYLAMORE C AB FIFTY SIX ARK (LAT 36 01 08 LONG 092 15 00.01)

MAY 26...	62	1	--
JUNE 25...	320	3	--
JULY 21...	>320	E400	--
AUG. 25...	>80	51	--

360108092150002 - N SYLAMORE CR AB FIFTY SIX ARK (LAT 36 01 08 LONG 092 15 00.02)

MAY 26...	60	1	--
JUNE 25...	160	2	--
JULY 21...	>320	120	--
AUG. 25...	>80	E80	--

> Greater than.

a Records furnished by Corps of Engineers, Little Rock, Ark.

E Estimated.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

WHITE RIVER BASIN--Continued

07075000 MIDDLE FORK LITTLE RED RIVER AT SHIRLEY ARK (LAT 35 39 LONG 92 18)[a]

DATE	DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMPERATURE (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
SEP. 28...	0	8.0	18.0	95
SEP. 28...	3	7.9	17.9	95
OCT. 20...	0	10.0	14.0	92
OCT. 20...	3	10.2	14.5	92
NOV. 24...	--	12.5	6.0	71
DEC. 16...	0	11.4	8.0	52
DEC. 16...	3	11.4	8.0	52
JAN. 13...	0	11.0	6.2	86
JAN. 13...	3	10.4	6.0	85
MAR. 1...	0	11.4	9.5	35
MAR. 1...	3	11.4	9.5	35
MAR. 23...	0	11.9	8.2	92
MAR. 23...	3	11.9	8.2	92
APR. 27...	0	11.3	5.4	140
APR. 27...	3	11.1	5.5	140
JUNE 18...	0	8.0	27.5	65
JUNE 18...	3	8.2	27.0	65
JULY 26...	0	7.5	30.0	58
JULY 26...	3	7.5	30.0	58

07075300 SOUTH FORK LITTLE RED RIVER AT CLINTON ARK (LAT 35 35 29 LONG 92 27 20)[a]

DATE	DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMPERATURE (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
SEP. 28...	0	7.9	18.0	46
SEP. 28...	3	7.5	18.0	46
OCT. 20...	0	9.2	14.0	36
OCT. 20...	3	8.7	14.0	36
NOV. 24...	--	12.8	5.0	54
DEC. 16...	0	11.1	8.5	45
DEC. 16...	3	11.9	8.2	45
JAN. 13...	0	13.0	7.0	67
JAN. 13...	3	13.2	7.0	68
MAR. 1...	0	12.1	8.8	40
MAR. 1...	3	12.1	8.8	40
MAR. 23...	0	10.7	9.8	40
MAR. 23...	3	10.4	9.5	40
APR. 27...	0	11.4	5.4	63
APR. 27...	3	11.4	5.4	63
JUNE 18...	0	7.3	27.0	55
JUNE 18...	3	7.1	26.8	55
JULY 26...	0	5.6	29.0	57
JULY 26...	3	5.7	29.0	57

07075390 ARCHEY CREEK AT CLINTON ARK (LAT 35 36 LONG 92 27)[a]

DATE	DEPTH (FEET)	DISSOLVED OXYGEN (MG/L)	TEMPERATURE (°C)	SPECIFIC CONDUCTANCE (MICROMHOS)
SEP. 28...	0	8.6	17.2	44
SEP. 28...	3	8.3	17.2	44
OCT. 20...	0	10.6	14.0	43
OCT. 20...	3	10.2	14.0	43
NOV. 24...	--	12.8	5.0	46
DEC. 16...	0	12.1	8.0	40
DEC. 16...	3	10.8	8.0	40
JAN. 13...	0	12.3	5.6	7.4
JAN. 13...	3	12.1	5.4	7.2
MAR. 1...	0	11.5	9.0	35
MAR. 1...	3	11.5	9.0	35
MAR. 23...	0	10.7	9.0	57
MAR. 23...	3	10.0	9.5	57
APR. 27...	0	11.6	5.4	61
APR. 27...	3	11.5	5.5	61
JUNE 18...	0	7.4	27.5	58
JUNE 18...	3	7.3	27.0	58
JULY 26...	0	7.8	30.0	58
JULY 26...	3	8.0	30.0	58

[a] Records furnished by Corps of Engineers, Little Rock, Ark.

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD WATER-QUALITY STATIONS

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

ARKANSAS RIVER BASIN

360514094223600 - LAKE WEDINGTON NR SAVOY ARK (LAT 36 05 14 LONG 094 22 36)

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
MAY			
25...	E25	E12	--
JUNE			
21...	20	7	--
JULY			
20...	E15	E3	--
AUG.			
23...	92	>60	--

360524094221500 - LAKE WEDINGTON NR SAVOY ARK (LAT 36 05 24 LONG 094 22 15)

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
MAY			
25...	E30	E10	--
JUNE			
21...	55	4	--
JULY			
20...	E15	<3	--
AUG.			
23...	31	30	--

360529094220600 - LAKE WEDINGTON NR SAVOY ARK (LAT 36 05 29 LONG 094 22 06)

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
MAY			
25...	E32	E7	--
JUNE			
21...	260	2	--
JULY			
20...	E10	E7	--
AUG.			
23...	33	18	--

350022093514101 - SUGAR CREEK NR WALDRON ARK (LAT 35 00 22 LONG 093 51 41.01)

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
MAY			
10...	>400	140	430
JUNE			
14...	710	E3	44
JULY			
12...	460	150	E16
AUG.			
25...	>800	E1800	90
SEP.			
14...	55	E5	37

350022093514102 - SUGAR CREEK NR WALDRON ARK (LAT 35 00 22 LONG 093 51 41.02)

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
MAY			
10...	900	73	350
JUNE			
14...	440	E2	46
JULY			
12...	240	100	E18
AUG.			
25...	E400	E2000	100
SEP.			
14...	80	E8	25

< Less than.
> Greater than.
E Estimated.

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

ARKANSAS RIVER BASIN--Continued

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
354645094415101 - CEDAR LAKE NR HEAVENER OKLA (LAT 35 46 45 LONG 094 41 51.01)			
MAY			
10...	E22	E3	E12
JUNE			
14...	75	E8	E18
JULY			
12...	E80	E50	E12
AUG.			
25...	85	E10	E13
SEP.			
14...	6	2	1
354645094415102 - CEDAR LAKE NR HEAVENER OKLA (LAT 35 46 45 LONG 094 41 51.02)			
MAY			
10...	200	E2	42
JUNE			
14...	260	37	E88
JULY			
12...	E90	E83	E10
AUG.			
25...	>800	E1300	E24
SEP.			
14...	10	0	8
354649094414201 - CEDAR LAKE NR HEAVENER OKLA (LAT 35 46 49 LONG 094 41 42.01)			
MAY			
10...	120	E8	26
JUNE			
14...	84	2	6
JULY			
12...	E35	E27	E8
AUG.			
25...	240	E17	E14
SEP.			
14...	5	0	10
354649094414202 - CEDAR LAKE NR HEAVENER OKLA (LAT 35 46 49 LONG 094 41 42.02)			
MAY			
10...	E50	0	25
JUNE			
14...	104	16	21
JULY			
12...	E35	E10	E6
AUG.			
25...	>800	E5000	E1200
SEP.			
14...	15	1	0

07250200 LEE CREEK AT VAN BUREN, ARK. (LAT 35 27 50 LONG 094 23 20)[a]

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGNESE MN UG/L	00915 CALCIUM CA MG/L	00925 MGNSIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
OCT. 13, 1970	14.	470.	40.0	10.4	2.90	8.8	6.0	0.25	0.060	73.
JAN. 5, 1971	5.	600.	0	5.6	2.90	3.5	3.0	0.20	0.130	38.
JULY 6......	26.	100.	40.0	27.2	-	15.7	63.0	0.10	-	222.

DATE	00900 TOT HARD CACO3 MG/L	00910 CALCIUM CACO3 MG/L	00410 T ALK CACO3 MG/L	00095 CNDUCTVY AT 25C MICROMHO	00400 PH S U	00080 COLOR PT-CO UNITS	00070 TURB JKSN JU	00310 BOD 5 DAY MG/L	00300 DO MG/L
OCT. 13, 1970	38.	26.0	33.	61.	6.70	20.	25.K	0.6	9.3
JAN. 5, 1971	26.	14.0	28.	45.	6.60	40.	25.K	1.4	12.6
JULY 6......	90.	68.0	54.	400.	7.30	0	25.K	0.6	5.5

DATE	31501 CCLIFORM IMEDENDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31679 STPCOCCI M-ENTCCS MF/100ML
OCT. 13, 1970	770.	200.	350.
JAN. 5, 1971	340.	100.	420.
JULY 6......	43.	4.K	10.

a Records furnished by Pollution Control and Ecology, Little Rock, Ark.

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD WATER-QUALITY STATIONS

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

ARKANSAS RIVER BASIN--Continued

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
353810093573700 - SHORES LAKE NR MULBERRY ARK (LAT 35 38 10 LONG 093 57 37)			
MAY			
17...	82	E17	--
AUG.			
17...	120	E13	--
353815093573100 - SHORES LAKE NR MULBERRY ARK (LAT 35 38 15 LONG 093 57 31)			
MAY			
17...	58	E30	--
AUG.			
17...	120	E18	--
353820093572500 - SHORES LAKE NR MULBERRY ARK (LAT 35 38 20 LONG 093 57 25)			
MAY			
17...	96	E17	--
AUG.			
17...	140	E10	--
351352093373100 - COVE LAKE NR PARIS ARK (LAT 35 13 52 LONG 093 37 31)			
MAY			
17...	E78	E35	--
JUNE			
21...	44	11	--
JULY			
19...	120	73	--
AUG.			
23...	E120	E15	--
351356093374200 - COVE LAKE NR PARIS ARK (LAT 35 13 56 LONG 093 37 42)			
MAY			
17...	E12	E8	--
JUNE			
21...	100	15	--
JULY			
19...	E64	E12	--
AUG.			
23...	E44	E13	--
351350093373300 - COVE LAKE NR PARIS ARK (LAT 35 13 50 LONG 093 37 33)			
MAY			
17...	E24	E7	--
JUNE			
21...	92	0	--
JULY			
19...	E30	E13	--
AUG.			
23...	E20	E21	--
353347093375000 - HORSEHEAD LAKE NR HARMONY ARK (LAT 35 33 47 LONG 093 37 50)			
MAY			
17...	140	E22	--
JUNE			
28...	290	140	--
JULY			
21...	E14	E15	--
AUG.			
16.	[illegible]	E22	--
353339093340800 - HORSEHEAD LAKE NR HARMONY ARK (LAT 35 33 39 LONG 093 34 08)			
MAY			
17...	250	E6	--
JUNE			
28...	220	>170	--
JULY			
21...	92	67	--
AUG.			
16...	64	E3	--
353345093375700 - HORSEHEAD LAKE NR HARMONY ARK (LAT 35 33 45 LONG 093 37 57)			
MAY			
17...	180	E20	--
JUNE			
28...	240	130	--
JULY			
21...	E6	E4	--
AUG.			
16...	E24	E8	--

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD WATER-QUALITY STATIONS

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

ARKANSAS RIVER BASIN--Continued

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
353258093093001 - BIG PINEY CREEK NR DOVER ARK (LAT 35 32 58 LONG 093 09 30.01)			
MAY 17...	180	60	--
JUNE 21...	260	63	--
JULY 19...	160	E57	--
AUG. 16...	640	230	--
353258093093002 - BIG PINEY CREEK NR DOVER ARK (LAT 35 32 58 LONG 093 09 30.02)			
MAY 17...	390	37	--
JUNE 21...	110	30	--
JULY 19...	130	E80	--
AUG. 16...	660	140	--
353258093093003 - BIG PINEY CREEK NR DOVER ARK (LAT 35 32 58 LONG 093 09 30.03)			
MAY 17...	230	43	--
JUNE 21...	160	26	--
JULY 19...	140	E100	--
AUG. 16...	720	130	--
350906093254100 - SPRING LAKE NR BELLEVILLE, ARK. (LAT 35 09 06 LONG 093 25 41)			
MAY 17...	55	E2	--
JUNE 21...	110	45	--
JULY 26...	E32	<1	--
AUG. 23...	140	120	--
350908093254700 - SPRING LAKE NR BELLEVILLE ARK (LAT 35 09 08 LONG 093 25 47)			
MAY 17...	E10	E5	--
JUNE 21...	100	35	--
JULY 26...	E30	E5	--
AUG. 23...	31	28	--
350911093254100 - SPRING LAKE NR BELLEVILLE ARK (LAT 35 09 11 LONG 093 25 41)			
MAY 17...	E10	E7	--
JUNE 21...	80	32	--
JULY 26...	58	<1	--
AUG. 23...	130	86	--

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

ARKANSAS RIVER BASIN--Continued

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
350201093504501 - SUGAR CREEK NR BOONEVILLE ARK (LAT 35 02 01 LONG 093 50 45.01)			
MAY			
10...	E1000	40	210
JULY			
12...	240	73	110
AUG.			
25...	760	E460	E21
SEP.			
14...	52	23	36
350201093504502 - SUGAR CREEK NR BOONEVILLE ARK (LAT 35 02 01 LONG 093 50 45.02)			
MAY			
10...	250	42	290
JULY			
12...	320	100	74
AUG.			
25...	>800	E570	36
SEP.			
14...	E40	33	33
344344093583201 - MILL CREEK NR Y CITY ARK (LAT 34 43 44 LONG 093 58 32.01)			
MAY			
10...	600	200	680
JUNE			
01...	>1600	>600	1000
17...	E250	<17	120
21...	300	E3	E8
JULY			
12...	150	E10	E20
AUG.			
25...	440	E5	46
SEP.			
14...	50	<2	20
344344093583202 - MILL CREEK NR Y CITY ARK (LAT 34 43 44 LONG 093 58 32.02)			
MAY			
10...	880	230	410
JUNE			
01...	>1600	>600	1900
17...	E100	E17	88
21...	180	<3	E6
JULY			
12...	140	<10	E16
SEP.			
14...	E30	E8	65
345204092491600 - LAKE SYLVIA NR WILLIAMS JUNCTION ARK (LAT 34 52 04 LONG 092 49 16)			
MAY			
10...	300	9	90
JUNE			
14...	220	22	40
JULY			
15...	>800	>170	130
AUG.			
25...	760	380	E6
SEP.			
14...	100	E22	0
345207092492100 - LAKE SYLVIA NR WILLIAMS JUNCTION ARK (LAT 34 52 07 LONG 092 49 21)			
MAY			
10...	380	10	65
JUNE			
14...	190	7	36
JULY			
12...	>800	>170	110
AUG.			
25...	540	380	42
SEP.			
14...	E40	E15	9

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

RED RIVER BASIN

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
334926093441100 - KULLI LAKE NR IDABEL OKLA (LAT 33 49 26 LONG 093 44 11)			
MAY			
10...	1000	400	>500
JUNE			
01...	>1600	>600	250
14...	E150	<11	E16
16...	E12	<11	<4
JULY			
12...	150	100	560
AUG.			
25...	>800	E3000	E1000
SEP.			
14...	E30	<5	E5
334927093440700 - KULLI LAKE NR IDABEL OKLA (LAT 33 49 27 LONG 093 44 07)			
MAY			
10...	600	340	>500
JUNE			
01...	>1600	>600	220
14...	E150	<11	E20
16...	E12	<11	E8
JULY			
12...	E10	E7	E10
AUG.			
25...	>800	E3000	E1000
SEP.			
14...	<10	E5	E10
334930093441400 - KULLI LAKE NR IDABEL OKLA (LAT 33 49 30 LONG 093 44 14)			
JUNE			
16...	E12	<11	<4
AUG.			
25...	>800	E3000	E600
342333094005401 - BLAYLOCK CREEK NR ATHENS ARK (LAT 34 23 33 LONG 094 00 54.01)			
JUNE, 1971			
14...	360	E20	240
AUG.			
25...	660	40	160
SEP.			
14...	330	72	E60
342333094005402 - BLAYLOCK CREEK NR ATHENS ARK (LAT 34 23 33 LONG 094 00 54.02)			
JUNE			
14...	420	E47	240
JULY			
12...	260	E37	80
AUG.			
25...	>800	60	E10
SEP.			
14...	170	E3	140
342142094014000 - SHADY LAKE NR ATHENS, ARK. (LAT 34 21 42 LONG 094 01 40)			
MAY			
10...	420	E11	190
JUNE			
14...	>320	60	120
JULY			
12...	1200	140	40
AUG.			
25...	>800	E1400	260
SEP.			
14...	54	E17	13
342147094014700 - SHADY LAKE NR ATHENS ARK (LAT 34 21 47 LONG 094 01 47)			
MAY			
10...	160	13	75
JUNE			
14...	270	15	50
JULY			
12...	200	70	E20
AUG.			
25...	>800	E300	100
SEP.			
14...	84	E10	360

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

RED RIVER BASIN--Continued

07341500 RED RIVER AT FULTON, ARK (LAT 33 36 26 LONG 093 48 49)[b]

DATE	MEAN DISCHARGE (CFS)	CHLORIDE (CL) (MG/L)	DATE	MEAN DISCHARGE (CFS)	CHLORIDE (CL) (MG/L)
OCT. 20, 1970	17600	39	APR. 27, 1971	34800	19
NOV. 24......	8900	77	MAY 25......	5200	43
DEC. 22......	6800	50	JUNE 15......	2800	39
JAN. 12, 1971	9900	150	JULY 27......	7100	38
FEB. 16......	11900	25	AUG. 24......	4600	84
MAR. 9......	11300	65	SEP. 28......	1200	170

07349455 BEAR CREEK NEAR ARKANA ARK (LAT 33 01 56 LONG 093 37 37)[a]

DATE	00010 WATER TEMP CENT	01045 IRON TOTAL UG/L	01055 MANGANESE MN UG/L	00915 CALCIUM CA MG/L	00925 MAGNESIUM MG MG/L	00945 SULFATE SO4 MG/L	00940 CHLORIDE CL MG/L	00620 NITRATE NO3-N MG/L	00650 T PO4 PO4 MG/L	00500 RESIDUE TOTAL MG/L
JAN. 12, 1971	11.	-	-	-	-	-	10.0	-	-	-
FEB. 9......	3.	-	-	-	-	-	10.0	-	-	-
APR. 6......	12.	-	-	-	-	-	6.5	-	-	-
MAY 11......	21.	-	-	-	-	-	4.0	-	-	-
AUG. 10......	25.	-	-	-	-	-	6.5	-	-	-

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
343028093232900 - LK CLEARFORK NR CRYSTAL SPRS ARK (LAT 34 30 28 LONG 093 23 29)			
MAY			
10...	1000	320	E1600
JUNE			
01...	E2000	E13	67
14...	1200	97	240
AUG.			
25...	<2	<2	<2
SEP.			
14...	E22	<2	7
343028093233400 - LK CLEARFORK NR CRYSTAL SPRS ARK (LAT 34 30 28 LONG 093 23 34)			
MAY			
10...	1200	340	820
JUNE			
01...	E1900	E23	86
14...	E35	E2	E16
AUG.			
25...	1200	15	200
SEP.			
14...	310	E3	170
343056093225300 - WALNUT CR NR CRYSTAL SPRS ARK (LAT 34 30 56 LONG 093 22 53)			
MAY			
10...	200	130	810
JUNE			
14...	280	E5	160
JULY			
15...	480	55	660
AUG.			
25...	320	210	90
SEP.			
14...	--	E5	17
343102093225700 - WALNUT CR NR CRYSTAL SPRS ARK (LAT 34 31 02 LONG 093 22 57)			
MAY			
10...	>400	160	1300
JUNE			
14...	800	E18	56
JULY			
15...	470	37	140
AUG.			
25...	210	35	60
SEP.			
14...	88	<2	18

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[a] Records furnished by Department of Pollution Control and Ecology, Little Rock, Ark.

[b] Records furnished by Corps of Engineers, New Orleans, La.

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD WATER-QUALITY STATIONS

CHEMICAL AND BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

RED RIVER BASIN--Continued

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-NIES PER 100 ML)
342659093181801 - MAZARN CREEK NR PEARCY ARK (LAT 34 26 59 LONG 093 18 18.01)			
MAY			
10...	550	46	E400
JUNE			
16...	230	E26	46
AUG.			
25...	230	200	120
SEP.			
14...	70	E23	80
342659093181802 - MAZARN CREEK NR PEARCY ARK (LAT 34 26 59 LONG 093 18 18.02)			
MAY			
10...	800	92	E400
JUNE			
14...	410	E18	60
JULY			
12...	360	E33	E72
AUG.			
25...	620	150	120
SEP.			
14...	E60	E17	170
342838093382701 - MONTGOMERY CREEK NR NORMAN ARK (LAT 34 28 38 LONG 093 38 27.01)			
JUNE			
14...	>800	>300	400
28...	>2000	>600	440
JULY			
12...	2000	730	710
AUG.			
25...	E650	330	E550
342838093382702 - MONTGOMERY CREEK NR NORMAN ARK (LAT 34 28 38 LONG 093 38 27.02)			
JUNE			
14...	>800	>300	470
28...	520	130	395
AUG.			
25...	310	250	360
SEP.			
14...	650	E23	E300
342147093525901 - LITTLE MISSOURI R NR LANGLEY ARK (LAT 34 21 47 LONG 093 52 59.01)			
MAY			
10...	E550	49	160
JUNE			
14...	190	20	150
JULY			
12...	440	120	42
AUG.			
25...	E1100	83	160
SEP.			
14...	85	E3	120
342147093525902 - ITTLE MISSOURI R NR LANGLEY ARK (LAT 34 21 47 LONG 093 52 59.02)			
MAY			
10...	380	73	210
JUNE			
14...	290	15	160
AUG.			
25...	E90	67	120
SEP.			
14...	210	E12	100
344541093042201 - MID FK SALINE R NR JESSIEVILLE ARK (LAT 34 45 41 LONG 093 04 22.01)			
MAY			
10...	400	73	450
JULY			
12...	300	190	60
AUG.			
25...	>800	>300	100
SEP.			
14...	E140	<2	50
344541093042202 - MID FK SALINE R NR JESSIEVILLE ARK (LAT 34 45 41 LONG 093 04 22.02)			
MAY			
10...	380	42	580
JULY			
12...	580	100	58
AUG.			
25...	>800	E1700	180
SEP.			
14...	240	E13	80

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD WATER-QUALITY STATIONS

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

RED RIVER BASIN

07341500 RED RIVER AT FULTON, ARK. (LAT 33 37 LONG 093 49)[b]

DATE	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	DATE	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCT. 20, 1970	17600	2170	103118	APR. 27, 1971	34800	1741	163584
NOV. 24......	8900	1754	42149	MAY 25......	5200	4375	61425
DEC. 22......	6800	564	10355	JUNE 15......	2800	8840	66830
JAN. 12, 1971	9900	4593	122771	JULY 27......	7100	5938	113831
FEB. 16......	11900	3551	114094	AUG. 24......	4600	2964	36813
MAR. 9......	11300	2199	67091	SEP. 28......	1200	884	2864

b Records furnished by Corps of Engineers, New Orleans, La.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED SILICA (SIO2) (MG/l)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
ST. FRANCIS RIVER BASIN											
07047918 - PORTER LAKE NEAR HUGHES, ARK. (LAT 34 52 54 LONG 090 20 34)											
OCT. 14...	4.1	50	20	0	5	0	16	4	19	0	10
07047921 - HORSESHOE LAKE NEAR HUGHES, ARK. (LAT 34 56 10 LONG 090 19 45)											
OCT. 14...	5.3	0	10	0	4	2	13	5	18	0	20
07047922 - BECK BAYOU NEAR HUGHES, ARK. (LAT 34 55 52 LONG 090 22 54)											
OCT. 14...	8.9	120	--	0	4	3	22	6	19	0	20

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)
07047918 - PORTER LAKE NEAR HUGHES, ARK. (LAT 34 52 54 LONG 090 20 34)									
OCT. 14...	.00	.03	.02	.07	.00	.00	.00	.00	.01
07047921 - HORSESHOE LAKE NEAR HUGHES, ARK. (LAT 34 56 10 LONG 090 19 45)									
OCT. 14...	.00	.00	.01	.01	.00	.00	.00	.00	.00
07047922 - BECK BAYOU NEAR HUGHES, ARK. (LAT 34 55 52 LONG 090 22 54)									
OCT. 14...	.00	.00	.01	.12	.00	.00	.00	.00	.00

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	D - ELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)
07047918 - PORTER LAKE NEAR HUGHES, ARK. (LAT 34 52 54 LONG 090 20 34)									
OCT. 14...	.00	130	120	.00	.00	.00	.00	.00	.00
07047921 - HORSESHOE LAKE NEAR HUGHES, ARK. (LAT 34 56 10 LONG 090 19 45)									
OCT. 14...	.00	45	36	140	.00	.00	.00	.00	.00
07047922 - BECK BAYOU NEAR HUGHES, ARK. (LAT 34 55 52 LONG 090 22 54)									
OCT. 14...	.00	430	300	200	.00	.00	.00	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
ST. FRANCIS RIVER BASIN--Continued											
07047918 - PORTER LAKE NEAR HUGHES, ARK. (LAT 34 52 54 LONG 090 20 34)											
OCT. 14...	16	4.9	3.3	6.3	72	0	5.6	3.8	.3	2.3	108
07047921 - HORSESHOE LAKE NEAR HUGHES, ARK. (LAT 34 56 10 LONG 090 19 45)											
OCT. 14...	22	6.5	2.4	3.9	102	0	3.2	2.2	.2	1.6	121
07047922 - BECK BAYOU NEAR HUGHES, ARK. (LAT 34 55 52 LONG 090 22 54)											
OCT. 14...	12	4.0	1.7	8.6	48	0	8.4	3.7	.4	7.6	104

DATE	CHLOR-DANE (UG/L)	TOX-APHENE (UG/L)	PARA-THION (UG/L)	METHYL PARA-THION (UG/L)	MALA-THION (UG/L)	DI-AZINON (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)
07047918 - PORTER LAKE NEAR HUGHES, ARK. (LAT 34 52 54 LONG 090 20 34)									
OCT. 14...	.00	.60	.00	.00	.00	.00	.00	.00	.00
07047921 - HORSESHOE LAKE NEAR HUGHES, ARK. (LAT 34 56 10 LONG 090 19 45)									
OCT. 14...	.00	--	.00	.00	.00	.00	.08	.00	.00
07047922 - BECK BAYOU NEAR HUGHES, ARK. (LAT 34 55 52 LONG 090 22 54)									
OCT. 14...	.06	.50	.00	.00	.00	.00	.00	.00	.07

DATE	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)
07047918 - PORTER LAKE NEAR HUGHES, ARK. (LAT 34 52 54 LONG 090 20 34)								
OCT. 14...	.00	.00	.00	.00	.00	.00	.00	.00
07047921 - HORSESHOE LAKE NEAR HUGHES, ARK. (LAT 34 56 10 LONG 090 22 54)								
OCT. 14...	.00	.00	.00	.00	.00	15	.00	.00
07047922 - BECK BAYOU NEAR HUGHES, ARK. (LAT 34 55 52 LONG 090 22 54)								
OCT. 14...	.00	1300	.00	.00	.00	.00	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CARBONATE HARD-NESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	ALKALINITY AS CACO3 (MG/L)	AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
07047910 - PORTER LAKE NEAR HUGHES, ARK. (LAT 34 52 54 LONG 090 20 34)										
OCT.										
14...	60	1	151	7.6	2	59	.05	.75	.42	.84
07047921 - HORSESHOE LAKE NEAR HUGHES, ARK. (LAT 34 56 10 LONG 090 19 45)										
OCT.										
14...	42	0	186	7.8	3	84	.02	.27	.040	.10
07047922 - BECK BAYOU NEAR HUGHES, ARK. (LAT 34 55 52 LONG 090 22 56)										
OCT.										
14...	46	7	125	7.2	3	39	.00	1.3	.50	.80

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

ARKANSAS RIVER BASIN

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
07261240 - CADRON CREEK NR WOOSTER ARK (LAT 35 10 16 LONG 092 29 59)												
JULY 22...	5.0	80	690	7.5	2.7	3.7	2.1	40	0	3.6	3.6	.1
07261250 - CADRON CREEK NR CONWAY ARK (LAT 35 06 52 LONG 092 31 29)												
JULY 22...	5.2	60	710	8.3	2.7	3.7	2.0	40	0	4.0	3.0	.0

DATE	NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	ALKA-LINITY AS CACO3 (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO
07261240 - CADRON CREEK NR WOOSTER ARK (LAT 35 10 16 LONG 092 29 59)												
JULY 22...	.00	53	48	30	0	62	6.9	20	.07	33	20	.3
07261250 - CADRON CREEK NR CONWAY ARK (LAT 35 06 52 LONG 092 31 29)												
JULY 22...	.00	54	49	32	0	66	6.8	15	.07	33	19	.3

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
07263300 - LAKE MAUMELLE AT NATURAL STEPS ARK (LAT 34 51 57 LONG 092 28 25)					
MAR. 12...	0	--	6	3	10

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

ARKANSAS RIVER BASIN--continued

07263750 - ARKANSAS RIVER AT L AND D 3 NR SWAN LAKE ARK (LAT 34 09 50 LONG 091 40 44)

DATE	HEXA-VALENT CHRO-MIUM (CR6) (UG/L) 01032	TOTAL ARSENIC (AS) (UG/L) 01002	TOTAL LEAD (PB) (UG/L) 01051	TOTAL ZINC (ZN) (UG/L) 01092	TOTAL COBALT (CO) (UG/L) 01037	TOTAL CAD-MIUM (CD) (UG/L) 01027
MAY						
01-10	0	<10	0	20	0	0
11-20	1	<10	1	10	0	1
21-30	0	<10	1	0	0	0
31...	0	<10	1	2	0	0
JUNE						
01-10	0	<10	1	0	0	0
11-20	0	<10	0	0	0	0
21-29	0	<10	0	0	0	0
30...	0	<10	0	0	0	0
JULY						
01-10	0	<10	0	10	0	0
11-16	0	<10	0	10	0	0
16-20	0	<10	0	10	0	0
21-30	0	<10	32	10	0	0
31...	0	<10	0	10	0	0
AUG.						
01-10	0	<10	0	10	2	0
11-20	0	<10	1	0	0	0
21-30	0	<10	1	0	1	0
31...	0	<10	1	0	2	0

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	PH (UNITS)	TUR-BID-ITY (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	NITRITE (NO2) (MG/L)	NITRATE (NO3) (MG/L)
340024091165400 - OLD MERRISACH LAKE NR TICHNOR ARK (LAT 34 00 24 LONG 091 16 54)								
JAN.								
20...	6.8	.040	38	6.9	8	17	.02	.2
340050091165600 - OLD MERRISACH LAKE NR TICHNOR ARK (LAT 34 00 50 LONG 091 16 56)								
JAN.								
20...	5.2	.060	50	7.1	11	9.0	.02	.1
340148091163000 - OLD MERRISACH LAKE NR TICHNOR ARK (LAT 34 01 48 LONG 091 16 30)								
JAN.								
20...	18	.030	46	7.5	2	12	.00	.2
340126091161800 - MERRISACH LAKE NR TICHNOR ARK (LAT 34 01 26 LONG 091 16 18)								
JAN.								
19...	40	.12	68	7.6	21	5.0	.00	1.3
340148091170600 - MERRISACH LAKE NR TICHNOR ARK (LAT 34 01 48 LONG 091 17 06)								
JAN.								
19...	32	.070	70	7.7	21	5.0	.00	1.2
340200091161800 - MERRISACH LAKE NR TICHNOR ARK (LAT 34 02 00 LONG 091 16 18)								
JAN.								
19...	32	.060	72	7.7	13	6.0	.00	1.1
340226091161800 - MERRISACH LAKE NR TICHNOR ARK (LAT 34 02 26 LONG 091 16 18)								
JAN.								
19...	32	.060	76	7.7	15	5.0	.02	1.0
340256091155600 - MERRISACH LAKE NR TICHNOR ARK (LAT 34 02 56 LONG 091 15 56)								
JAN.								
19...	40	.010	66	7.7	7	3.0	.03	.3
340310091163000 - MERRISACH LAKE NR TICHNOR ARK (LAT 34 03 10 LONG 091 16 30)								
JAN.								
19...	36	.030	62	7.6	7	36	.00	.6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

RED RIVER BASIN

	TOTAL ARSENIC (AS) (UG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	MERCURY (HG) DISSOLVED	MERCURY (HG) TOTAL
3433580930547 - HOT SPRINGS RESERVOIR ON BULL BAYOU (LAT 34 33 58 LONG 093 05 47)								
OCT.								
08...	<10	<10	<1	15	<1	20	<.5	<.5
3432190930340 - LAKE RICKS NR HOT SPRINGS, ARK. (LAT 34 32 19 LONG 093 03 40)								
FEB.								
05...	<10	--	4	--	--	<1	<.5	--

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
07362590 - LAKE WINONA AT REFORM, ARK. (LAT 34 47 51 LONG 092 50 43)					
MAR.					
12...	0	4	3	33	50

DATE	TOTAL ARSENIC (AS) (UG/L) 01002	HEXA-VALENT CHROMIUM (CR6) (UG/L) 01032	TOTAL LEAD (PB) (UG/L) 01051	TOTAL ZINC (ZN) (UG/L) 01092	TOTAL COBALT (CO) (UG/L) 01037	TOTAL CADMIUM (CD) (UG/L) 01027
MAY						
01-10	<10	<10	0	20	0	0
11-20	<10	<10	1	0	0	0
21-30	<10	<10	0	0	1	0
31...	<10	<10	0	0	0	0
JUNE						
01-10	<10	<10	0	10	1	0
11-20	<10	<10	1	0	1	0
21-29	<10	<10	1	10	1	0
30...	<10	<10	0	10	0	0
JULY						
01-10	<10	<10	0	0	0	0
11-20	<10	<10	0	0	0	0
21-30	<10	<10	0	20	0	0
31...	<10	<10	5	0	0	0
AUG.						
01-10	<10	<10	0	0	0	0
11-20	<10	<10	1	0	0	0
21-30	<10	<10	0	0	0	0
31...	<10	10	0	0	0	0

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